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## Graduate Catalog - The School Year 1981-1982

Prairie View A&M University

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1981-82 Graduate Catalog

UNIVERSITY BULLETIN



**Prairie View  
A&M  
University**

37  
-

A PART OF THE TEXAS A&M UNIVERSITY SYSTEM

PRAIRIE VIEW A&M  
UNIVERSITY  
GRADUATE CATALOG  
1981-82

ARCHIVE COLLECTION

104<sup>th</sup>  
YEAR

A Part of  
THE TEXAS A&M  
UNIVERSITY SYSTEM

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BULLETIN OF  
**PRAIRIE VIEW A&M UNIVERSITY**  
USPS 074-960

Prairie View, Texas

Established by the Legislature of the State of Texas in the year 1876

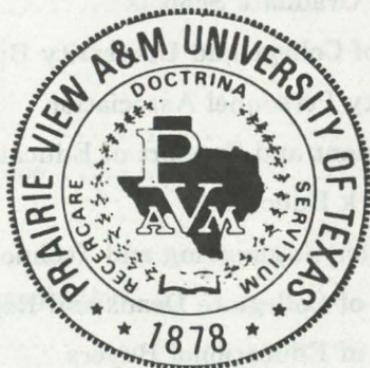
VOLUME 70

JUNE 1981

NO. 1

# GRADUATE CATALOG

RECORD OF SESSION 1980-81  
ANNOUNCEMENTS FOR THE SESSION 1981-82



LD  
4571  
P58037  
1981-1982  
Grad.

## ACCREDITATION

The University is accredited by the Texas Education Agency, the Southern Association of Colleges and Schools. The teacher education programs are accredited by the National Council for the Accreditation of Teacher Education for the preparation of elementary and secondary teachers. The Engineering Curricula are nationally accredited by the Accreditation Board for Engineering and Technology. The Nursing Curriculum is accredited by the National League for Nursing and the Home Economics programs are accredited by the American Association of Home Economics. The Social Work Curriculum is accredited by the Council on Social Work Education.

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Prairie View A&M University is an equal educational opportunity institution; its students, faculty, and staff members are selected without regard to their race, color, creed, sex, or national origin, consistent with the Assurance of Compliance with Title VI of the Civil Rights Act of 1964.

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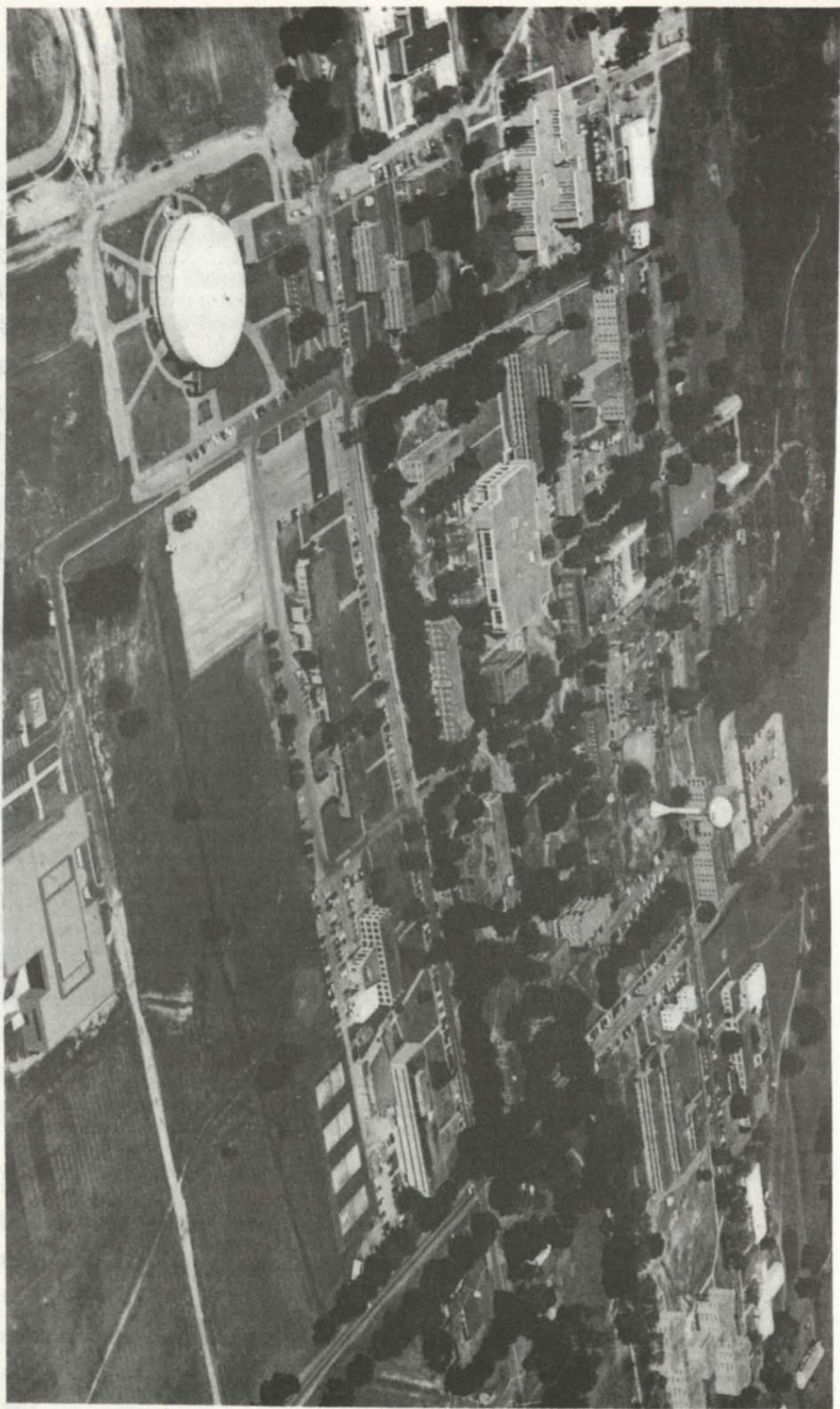
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## MEMBERSHIPS

- American Association of Collegiate Registrars and Admissions Officers
- American Council on Education
- American Home Economics Association
- American Society for Engineering Education
- Association of Administrators of Home Economics
- Association of Social Science Teachers
- Association of State Universities 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
- Council for Advancement and Support of Education
- Council on Social Work Education
- Accreditation Board for Engineering and Technology
- National Association of Collegiate Deans and Registrars
- National Association of Educational Buyers
- National Association of Student Financial Aid Administrators
- National Commission on Accrediting
- National Council for the Accreditation of Teacher Education
- National Council of Teachers of English
- National League for Nursing
- Southern Association of Colleges and Schools
- Southern Association of College and University Business Officers
- Texas Association of Collegiate Registrars and Admission Officers
- Texas Association of State Senior College and University Business Officers
- The American Association of Colleges for Teacher Education
- Association of Collegiate Schools of Architecture

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# ACADEMIC YEAR CALENDAR

Fall Semester, 1981-82

MONTH/DATE		TIME	EVENT/ACTIVITY
August	26	8:00 a.m.	Fall Semester Opens
August	26	8:00 a.m.-5:00 p.m.	Fall Faculty Renewal Conference Begins and Continues until 5:00 p.m. daily
Through			
August	28	5:00 p.m.	Fall Faculty Renewal Conference Closes
August	29	7:30 a.m.	Residence Halls and Dining Hall Open
August	30	8:00 a.m.	Parents' Day
August	29	7:30 a.m.	Orientation for New Students
Through			
September	1		
August	31	8:00 a.m.-5:00 p.m.	Regular Registration begins Continues until 5:00 p.m. daily
Through			
September	1	5:00 p.m.	Regular Registration Closes
September	2	7:30 a.m.	Classes Begin
			Late Registration Fee Begins
September	14	5:00 p.m.	Late Registration Closes
September	17	8:00 a.m.-5:00 p.m.	12th Class Day Report
			Last Day for Adds & Drops
September	24	10:00 a.m.	Academic Convocation Scheduled
October	21	7:30 a.m.-Open	Mid-Semester Examinations Begin
Through			
October	24	5:00 p.m.	Mid-Semester Examinations End
November	16	8:00 a.m.-5:00 p.m.	Early Registration for Spring Se- mester Begins. Continues until 5:00 p.m. daily and 12:00 Noon, Saturday
Through			
December	19	5:00 p.m.	Early Registration Closes for Spring Semester
November	25	12:00 p.m.	Thanksgiving Recess Begins
November	30	7:30 a.m.	Thanksgiving Recess Ends
			Classes Resume
December	12	See Published Schedule	Final Examinations Begin
Through			
December	17	See Published Schedule	Final Examinations End
December	19	5:00 p.m.	Fall Semester Closes
			Residence Halls and Dining Hall Close
December	21	8:00 a.m.	Christmas Vacation Begins
Through			
January	11	7:30 a.m.	Christmas Vacation Ends

## Spring Semester, 1981-82

MONTH/DATE	TIME	EVENT/ACTIVITY
January	4 8:00 a.m.	Spring Semester Opens
January	4 8:00 a.m.	Mid-Year Faculty Renewal Conference Begins and Continues until 5:00 p.m. daily
Through		
January	6 5:00 p.m.	Mid-Year Faculty Renewal Conference Closes
January	7 7:00 a.m.	Orientation for New Students
January	11,12 8:00 a.m.	Regular Registration Begins Continues until 5:00 p.m. daily
January	13 7:30 a.m.	Classes Begin Late Registration Begins
January	25 5:00 p.m.	Late Registration Closes
January	26 8:00 a.m.-5:00 p.m.	12th Class Day Report Last Day for Adds & Drops
March	4 7:30 a.m.-Open	Mid-Semester Examinations Begin
Through		
March	6 5:00 p.m.	Mid-Semester Examinations End
March	8 8:00 a.m.-5:00 p.m.	Spring Faculty Renewal Conference Begins. Continues until 5:00 p.m. daily
Through		
March	12 5:00 p.m.	Spring Faculty Renewal Conference Ends
March	15 7:30 a.m.	Classes Resume
March	25 10:00 a.m.	Honors Convocation
April	8 12:00 Noon	Easter Recess Begins
April	13 7:30 a.m.	Easter Recess Ends
April	15-16 8:00 a.m.-5:00 p.m.	Early Bird Financial Aid Day
April	25 7:30 a.m.-Open	Parents' Day
April	26 8:00 a.m.-5:00 p.m.	Early Registration for Summer Session Begins. Continues until 5:00 p.m. daily and 12:00 Noon, Saturday
Through		
May	31 12:00 Noon	Early Registration for Summer Session Closes
May	9 10:00 a.m.	Spring Commencement Day
May	10 See Published Schedule	Final Examinations Begin
Through		
May	15 5:00 p.m.	Final Examinations End
May	17 8:00 p.m.	Faculty Renewal Conference begins. Continues until 5:00 p.m. daily and 12:00 Noon, Saturday
Through		
May	21 5:00 p.m.	Faculty Renewal Conference Closes
May	22 12:00 Noon	Second Semester Closes
May	16 5:00 p.m.	Residence Halls and Dining Hall Close

**Summer Session, 1981-82**

**FIRST TERM**

<b>MONTH/DAY</b>		<b>TIME</b>	<b>EVENT/ACTIVITY</b>
June	1	8:00 a.m.	First Summer Term Opens
June	1,2	8:00 a.m.	Regular Registration Begins
			Continues until 5:00 p.m. daily
June	3	7:00 a.m.	Classes Begin
			Late Registration Begins
June	8	5:00 p.m.	Late Registration Closes
June	8	8:00 a.m.	4th Class Day Report
			Last Day for Adds & Drops
July	5	8:00 a.m.-5:00 p.m.	Independence Day Recess
July	6	7:00 a.m.	Independence Day Recess Ends
July	9	7:00 a.m. to End of Last Class Hour	Final Examinations Scheduled
July	10	5:00 p.m.	First Summer Term Closes

**SECOND TERM**

<b>MONTH/DAY</b>		<b>TIME</b>	<b>EVENT/ACTIVITY</b>
July	12	8:00 a.m.	Second Summer Term Opens
July	12,13	8:00 a.m.-5:00 p.m.	Registration begins and continues daily until 5:00 p.m.
July	14	7:00 a.m.	Classes Begin
			Late Registration Begins
July	19	8:00 a.m.	4th Class Day Report
			Last Day for Adds & Drops
July	19	5:00 p.m.	Late Registration Closes
July	30	7:00 a.m.	Final Examinations for 3-Weeks Courses
July	26	8:00 a.m.-5:00 p.m.	Early Registration for Fall Semester Begins.
Through August	28		Early Registration for Fall Semester Ends
August	15	10:00 a.m.	Summer Commencement
August	20	7:00 a.m. End of Last Class Hour	Final Examinations for 6-Weeks Courses
August	21	5:00 p.m.	Second Summer Term Closes Summer Session Closes

## The Texas A&M University System

Composed of Texas A&M University and all colleges, agencies and services under the supervision of the Board of Regents of Texas A&M University System including:

### Texas A&M University

Texas Agricultural Experiment Station

Texas Agricultural Extension Service

Texas Engineering Experiment Station

Texas Engineering Extension Service

Texas Maritime Academy

Texas Transportation Institute

Texas Forest Service

Prairie View A&M University

Tarleton State University



# THE TEXAS A&M UNIVERSITY SYSTEM

## Board of Regents

Mr. H. R. Bright, Chairman	Dallas
Mr. John R. Blocker, Vice Chairman	Houston
Mr. H. C. Bell, Jr.	Austin
Dr. John B. Coleman	Houston
Mr. William A. McKenzie	Dallas
Mr. Norman N. Moser	DeKalb
Mr. Joe C. Richardson, Jr.	Amarillo
Mr. Clyde H. Wells	Granbury
Mr. Royce E. Wisenbaker	Tyler

## System Officials

Chancellor, Dr. Frank W. R. Hubert	
Asst. Chancellor & Secretary to the Board, Robert G. Cherry	
Asst. Secretary to the Board, Mrs. Brenda J. Manley	
Asst. to the Chancellor, Mrs. Nelda R. Green	
Deputy Chancellor for Agriculture, Dr. Perry L. Adkisson	
Assoc. Deputy Chancellor for Agriculture, Dr. O. D. Butler	
Deputy Chancellor for Engineering, Dr. John C. Calhoun Jr.	
Assoc. Deputy Chancellor for Engineering (Plans and Operations), Heston Cherry	
Asst. to the Deputy Chancellor for Engineering (Fiscal), Mrs. Marie Schoeneman	
Asst. to the Deputy Chancellor for Engineering, Mrs. Marjorie Manning	
Executive Vice Chancellor for Administration, W. C. Freeman	
Asst. Executive Vice Chancellor for Administration, Robert L. Smith, Jr.	
Asst. Vice Chancellor (Budgets), W. Clifton Lancaster	
Asst. to the Executive Vice Chancellor, Mrs. Mildred Allison	
Comptroller (System), William Wasson	
Executive Vice Chancellor for Programs	
Asst. to the Executive Vice Chancellor for Programs, Mrs. Linda J. Whitson	
Vice Chancellor for Legal Affairs & General Counsel, James B. Bond	
Assoc. General Counsel, Edward W. Kaska, Jr.	
Director, Facilities Planning & Construction, Gen. Wesley E. Peel	
Asst. Director, Facilities Planning & Construction, Daniel T. Whitt	

# PRAIRIE VIEW A&M UNIVERSITY 1980-81

## Administrative Officers

Alvin I. Thomas, Ph.D., President of the University  
Andrew R. Bland, Jr., B.A., Commanding Officer, Army ROTC  
Ms. Flossie M. Byrd, Ph.D., Dean, College of Home Economics  
Hoover Carden, M.S., Cooperative Extension Service  
Raymond E. Carreathers, M.Ed., Assoc. Vice President for Student Affairs  
Samuel R. Collins, Ed.D., Dean, College of Industrial Education & Technology  
Ms. R. L. Bland-Evans, M.A., Dean of Women  
Frank Francis, M.L.S., Director, W. R. Banks Library  
Austin E. Greaux, B.S., Dean, College of Engineering  
Harry G. Hendricks, Ed.D., Dean, College of Education  
Griff W. Kendricks, B.S., Vice President of Fiscal Affairs  
Ms. Jewellean Mangaroo, Ph.D., Dean, College of Nursing  
Edward W. Martin, Ph.D., Director, Division of Natural Sciences  
Ivory V. Nelson, Ph.D., Vice President for Research and Special Programs  
Cecil Strickland, Ed.D., Dean, College of Agriculture  
Hal Walton, M.A., Commanding Officer, Navy ROTC  
Ms. Bernice B. Rollins, Ed.D., Dean, College of Business  
Hubert D. Smith, M.A., Administrative Assistant to the President  
George H. Stafford, Ed.D., Director of Admissions  
Curtis A. Thomas, M.S., Registrar  
Ms. Joahanne Thomas, Ed.D., Vice President, Academic Affairs  
Waymon T. Webster, Ph.D., Dean, Graduate School  
Curtis A. Wood, Ed.D., Director, Information and Publications

## Other Administrative Officers

Cathy Harris, M.S., Assoc., Director of Admissions  
A. D. James, Jr., M.S., Director, Student Financial Aid  
Brutus Jackson, MBA, Director, Career Planning and Placement  
Arlie E. Lebeaux, Bldg. Trade Certificates, Superintendent, Maintenance Dept.  
Leroy Marion, B.S., Dean of Men  
Emory R. Owens, M.D., Medical Director  
L. L. Tramble, M.S., Superintendent, Buildings and Grounds

# GRADUATE FACULTY

- Aikens, Louis L. (1978) . . . . . Professor of Education & Head  
of Administration & Supervision  
B.S. 1954, Bluefield State College  
M.S. 1962, Kent State University  
Ph.D. 1978, Bowling Green State University
- Ashford, James Timothy (1947) . . . . . Associate Professor of Music  
B.S. 1945, Central State College  
M.A. 1947, New York State University  
Ph.D. 1953, University of Iowa
- Bailey, Martha L. (1977) . . . . . Associate Professor of Education  
B.S. 1957, Southern University  
M.A. 1970, Southern University  
Ed.D. 1977, University of Houston
- Beasley, John (1970) . . . . . Professor of Education,  
Department of Psychology  
B.S. 1958, Texas Southern University  
M.A. 1961, Texas Southern University  
Ed.D. 1967, Washington State University
- Berry, Jewel Edward (1956) . . . . . Professor of Biology  
A.B. 1951, Fisk University  
M.A. 1953, Fisk University  
Ph.D. 1956, University of Notre Dame
- Bonner, Harold Scott (1970) . . . . . Associate Professor of Industrial  
Education and Technology  
B.S. 1962, Prairie View A&M University  
M.S. 1970, Prairie View A&M University  
Ed.D. 1972, Texas A&M University
- Booker, Clarissa Gamble (1977) . . . . . Associate Professor of Education  
B.S. 1968, Prairie View A&M University  
M.A. 1969, Colorado State University  
Ed.D. 1977, University of Houston
- Boyden, Lloyd Rogers (1957) . . . . . Associate Professor of Industrial  
Education and Technology  
B.S. 1952, Hampton Institute  
M.A. 1959, New York University  
Ed.D. 1972, Texas A&M University
- Brams, Eugene Arnold (1971) . . . . . Associate Professor of Agriculture  
B.S. 1948, University of Wisconsin  
M.S. 1949, University of Wisconsin  
Ph.D. 1967, University of Florida
- Brooks, Ernest T. (1979) . . . . . Professor of Education & Head,  
Counselor Education  
B.A. 1964, Lane College  
M.A. 1968, Murray State University  
Ed.S. 1970, Murray State University  
Ph.D. 1973, Ohio State University
- Brown, George Erwin (1975) . . . . . Associate Professor of Biology  
B.S. 1960, Prairie View A&M University  
M.S. 1972, University of Florida  
Ph.D. 1976, University of Florida
- Byrd, Flossie Marian (1962) . . . . . Professor of Home Economics and Dean,  
College of Home Economics  
B.S. 1948, Florida A&M University  
M.Ed. 1954, Pennsylvania State University  
Ph.D. 1963, Cornell University

## GRADUATE FACULTY

- Carter, Purvis Melvin (1956) . . . . . Associate Professor of History  
A.B. 1948, Tillotson College  
M.A. 1950, Howard University  
Ph.D. 1970, University of Colorado
- Coats, Lorenzo W. (1978) . . . . . Assistant Professor of Biology  
B.S. 1965, Miles College  
Ph.D. 1973, Purdue University
- Cole, Larry (1972) . . . . . Associate Professor of Chemistry  
B.S. 1966, Texas Southern University  
Ph.D. 1971, University of Houston
- Collins, Samuel R. (1949) . . . . . Professor of Industrial Education & Technology  
and Dean, College of Industrial Education and Technology  
B.S. 1949, Prairie View A&M University  
M.S. 1953, Prairie View A&M University  
Ed.D. 1962, University of California at Los Angeles
- Doctor, Vasant M. (1967) . . . . . Associate Professor of Chemistry  
B.S. 1946, Royal Institute of Science (Bombay)  
M.S. 1951, University of Wisconsin  
Ph.D. 1953, Texas A&M University  
Further Study: University of Texas; University of Houston
- Edwards, Charles T., Jr. (1957) . . . . . Assistant Professor and Assistant  
Dean of Industrial Education and Technology  
B.S. 1954, Hampton Institute  
M.S. 1960, Kansas State College  
Ed.D. 1977, University of Houston
- Eiland, Millard (1973) . . . . . Assistant Professor of English  
B.A. 1951, Baylor University  
M.A. 1966, University of Houston  
Ph.D. 1974, Louisiana State University
- Grossman, Gwendolyn Bryant (1969) . . . . . Associate Professor of Education  
B.S. 1948, Southern Methodist University  
M.S. 1956, University of Houston  
Ed.D. 1967, University of Houston
- Harris, Thomas S. (1977) . . . . . Assistant Professor of Soil Science and  
PVAMU Cooperative Extension Program  
B.S. 1968, Fort Valley State College  
M.S. 1973, University of Illinois  
Ph.D. 1977, University of Illinois
- Hawkins, Dorisula Dorlyne (1966) . . . . . Associate Professor of Business and Head,  
Department of Office Administration  
B.S. 1962, Jarvis Christian College  
M.S. 1967, Prairie View A&M University  
Ed.D. 1975, University of Houston
- Hawkins, Frank T. (1965) . . . . . Associate Professor and Head,  
Mathematics Freshman Studies  
B.S. 1958, Prairie View A&M University  
M.S. 1965, Prairie View A&M University  
M.A. 1968, University of Illinois  
Ed.D. 1975, University of Houston
- Hebert, Rubye N. (1978) . . . . . Associate Professor of Music  
B.S. 1961, Bishop College  
M.M. 1964, Indiana University  
D.M.A. 1976, Ohio State University
- Hendricks, Harry G. (1961) . . . . . Professor of Education & Dean,  
College of Education  
B.A. 1937, Texas College  
M.Ed. 1949, Colorado University  
D.Ed. 1960, Colorado University

GRADUATE FACULTY

- Henry, Marion (1956) . . . . . Professor and Director of the  
Division of Educational Technology  
B.S. 1952, Southern University  
M.S. 1953, Bradley University  
Ph.D. 1972, Syracuse University
- Henry, Robert A. (1967) . . . . . Professor and Head Department  
of Music  
B.A. 1937, Prairie View A&M University  
M.Mus 1945, University of Southern California  
Ph.D. 1965, Indiana University
- Humphrey, Ronald David (1970) . . . . . Associate Professor of Biology  
B.S. 1960, Colorado State University  
M.S. 1963, Colorado State University  
Ph.D. 1970, University of Texas
- Jackson, Eugene G. (1955) . . . . . Associate Professor and Head,  
Safety & Driver Education  
B.S. 1954, Kansas State University  
M.S. 1955, Kansas State University  
Ed.S. 1976, Michigan State University
- Kelley, Danny Roy (1978) . . . . . Assistant Professor of Music  
B.A. 1969, Prairie View A&M University  
M.M. 1971, Peabody Conservatory of Music  
Adv. Study, Peabody Conservatory of Music
- Kendall, William S. (1974) . . . . . Associate Professor of Education and Head  
Department of Special Education  
B.A. 1960, Prairie View A&M University  
M.Ed. 1967, Prairie View A&M University  
Ed.D. 1974, University of Houston
- Keys, Nathaniel (1978) . . . . . Research Specialist  
College of Agriculture  
M.S. 1973, Jackson State University  
M.S. 1975, University of Wisconsin
- Kirkpatrick, David Andrew (1968) . . . . . Associate Professor and Acting  
Chairman, Industrial Technology  
B.S. 1967, Prairie View A&M University  
M.S. 1968, Kansas State College  
Ph.D. 1974, Purdue University
- Kithcart, Phillip E. (1976) . . . . . Assistant Professor of Economics and Head,  
Department of Economics & Geography  
B.A. 1968, North Carolina College  
M.A. 1970, University of Cincinnati  
Adv. Study, Univ. of Cincinnati
- Kizer, Dorothy (1974) . . . . . Associate Professor of Home  
Economics  
B.S. 1944, Oklahoma State University  
M.S. 1961, University of Oklahoma  
Ph.D. 1973, Iowa State University
- Mangaroo, Arthur S. (1969) . . . . . Professor of Agriculture  
B.S. 1962, North Carolina A&T  
M.S. 1963, Ohio State University  
Ph.D. 1967, Ohio State University
- Martin, Edward Williford (1952) . . . . . Professor of Biology &  
Chairman, Division of Natural Sciences  
B.A. 1950, Fisk University  
M.A. 1952, Indiana University  
Ph.D. 1962, University of Iowa

## GRADUATE FACULTY

- Miller, Helen (1980) . . . . . Professor of Education and Acting Head  
Department of Elementary and Secondary Education  
B.A. 1947, Houston Tillotson College  
M.Ed. 1958, University of Texas at Austin  
Ph.D. 1974, University of Texas at Austin
- Moore, Leroy G. (1978) . . . . . Associate Professor and Head  
Department of Health, Physical  
Education and Recreation  
B.S. 1948, Langston University  
M.S. 1949, Colorado State University  
Ed.D. 1968, University of Northern Colorado
- Nelson, Ivory V. (1968) . . . . . Professor of Chemistry and Vice-  
President for Research and Special  
Programs  
B.S. 1959, Grambling State University  
Ph.D. 1963, University of Kansas
- Parker, William (1974) . . . . . Associate Professor of Education  
and Director, Teacher Corps.  
B.S. 1962, Alcorn A&M College  
M.S. 1966, University of Indiana  
Ed.D. 1974, University of Miami
- Parks, Alfred Leon (1977) . . . . . Associate Professor of Agriculture  
B.S. 1967, Arkansas AM&N College  
M.S. 1969, University of Illinois  
Ph.D. 1973, University of Illinois
- Pinkerton, Frank (1977) . . . . . Associate Professor of Animal Science Dairy  
B.S. 1950, Oklahoma State University  
M.S. 1955, Texas A&M University  
Ph.D. 1967, Texas A&M University
- Rao, Anasuya S. (1972) . . . . . Associate Professor of History  
B.A. 1951, Maharani's College for Women  
B.Ed. 1956, R.V. Teacher's College  
M.Ed. 1956, Rutgers—The State University  
Ph.D. 1972, Texas A&M University
- Rollins, Bernice B. (1972) . . . . . Professor and Dean, College of  
Business  
B.S. 1952, Southern University  
M.A. 1955, New York University  
Ed.S., New York University  
Ed.D. 1971, Arizona State University
- Rugeley, Vera C. (1967) . . . . . Associate Professor of Mathematics  
B.S. 1960, Prairie View A&M University  
M.S. 1965, Prairie View A&M University  
Ed.D. 1976, University of Houston
- Ryder, Hollie Alan (1975) . . . . . Associate Professor of Health,  
Physical Education & Recreation  
A.B. 1964, Heidelberg College  
M.A. 1966, New Mexico Highlands University  
Ed.D. 1971, University of Arkansas
- Sanders, Emmerson (1978) . . . . . Assistant Professor of Agriculture  
B.A. 1952, Prairie View A&M College  
M.A. 1965, Michigan State University  
Ph.D. 1972, Ohio State University
- Settles, Carl E. (1975) . . . . . Associate Professor of Education  
Assistant Professor of Counselor Education  
& Psychology  
B.S. 1970, Prairie View A&M University  
M.Ed. 1971, Prairie View A&M University  
Ph.D. 1976, University of Texas

## GRADUATE FACULTY

- Shine, Theodis (1969) . . . . . Assistant Professor of English  
 B.A. 1958, Howard University  
 M.A. 1963, State University of Iowa  
 Ph.D. 1974, University of California — Santa Barbara
- Soliman, M.A. (1971) . . . . . Associate Professor of Business  
 B.S. 1952, Cairo University  
 M.S. 1963, Cornell University  
 Ph.D. 1967, Iowa State University
- Stafford, George H. (1955) . . . . . Professor and Director of Admissions  
 B.S. 1948, Prairie View A&M University  
 M.Ed. 1952, Prairie View A&M University  
 Ed.D. 1957, Cornell University
- Starling, Iredell D. (1969) . . . . . Professor of Education  
 B.A. 1950, Texas College  
 M.Ed. 1954, Texas Southern University  
 Ed.D. 1970, University of Houston
- Stewart, Alfred D. (1954) . . . . . Professor and Head, Department  
 of Mathematics  
 A.B. 1940, Howard University  
 M.S. 1949, Howard University  
 Ph.D. 1964, University of Texas
- Strickland, Cecil L., Sr. (1974) . . . . . Professor and Dean,  
 College of Agriculture  
 B.S. 1960, Prairie View A&M University  
 M.S. 1963, University of Illinois  
 Ed.D. 1973, North Carolina State University
- Thiagarajan, K. R. (1967) . . . . . Assistant Professor of Economics  
 M.A. 1953, Anamalai University (India)  
 Further Study: University of Tennessee
- Thomas, Curtis A. (1968) . . . . . Associate Professor of Education  
 B.A. 1941, Sam Houston College  
 M.S. 1948, Prairie View A&M University  
 Further Study: University of Texas, University of Colorado, Columbia University
- Thomas, Emma Joahanne (1968) . . . . . Professor of English  
 Vice President for Academic Affairs  
 B.S. 1965, Tuskegee Institute  
 M.A. 1966, New Mexico Highlands University  
 Ed.D. 1976, Washington State University
- Thornton, Evelyn E. (1958) . . . . . Assistant Professor of Mathematics  
 B.S. 1954, Texas Southern University  
 M.A. 1957, Texas Southern University  
 Ph.D. 1973, University of Houston
- Trotty, Willie F. (1978) . . . . . Associate Professor of Education  
 B.S. 1970, Stephen F. Austin  
 M.S. 1972, Stephen F. Austin  
 Ph.D. 1977, Purdue University
- Tyler, Esther J. (1968) . . . . . Assistant Professor of Business  
 B.S. 1961, Prairie View A&M University  
 M.S. 1967, Prairie View A&M University  
 Ed.D. 1977, University of Houston
- Washington, Arthur Clovis (1974) . . . . . Professor of Biology &  
 Director of Tri-County Nutrition  
 B.S. 1957, Texas College  
 M.S. 1963, Tuskegee Institute  
 Ph.D. 1971, Illinois Institute of Technology

## GRADUATE FACULTY

- Webster, Waymon T. (1969) . . . . . Professor of Education & Dean,  
Graduate School  
B.S. 1953, Prairie View A&M University  
M.A. 1954, Prairie View A&M University  
Ph.D. 1973, Texas A&M University
- White, Calvin O. (1979) . . . . . Assistant Professor of Physical Education  
B.S. 1958, Prairie View A&M University  
M.S. 1963, Prairie View A&M University  
Ed.D. 1973, East Texas State University
- White, Mary V. (1979) . . . . . Associate Professor of Health,  
Physical Education  
B.S. 1955, Alcorn State University  
M.S. 1963, Prairie View A&M University  
Ed.D. 1973, East Texas State University
- Williams, John R. (1976) . . . . . Professor of Chemistry  
B.S. 1969, Texas Southern University  
Ph.D. 1976, Massachusetts Institute of Technology
- Williams, Sarah Bernadette (1972). . . . . Associate Professor & Head,  
Department of Sociology and Social Work  
B.A. 1970, University of Texas  
M.S.W. 1972, University of Houston  
Ph.D. 1978, University of Texas
- Wood, Curtis A. (1947) . . . . . Professor of Health,  
Physical Education & Recreation  
and Director, Information Services  
A.B. 1938, Knoxville College  
M.B.A. 1946, Columbia University  
Ed.D. 1956, Columbia University
- Woolfolk, George Ruble (1943). . . . . Professor and Head,  
Department of History  
A.B. 1937, Louisville Mincipal College  
B.A. 1938, Ohio State University  
Ph.D. 1947, University of Wisconsin
- Wyatt, Lucius R. (1974) . . . . . Associate Professor of Music  
B.S. 1959, Florida A&M University  
M.M. 1960, Eastman School of Music  
Ph.D. 1974, Eastman School of Music



# ASSOCIATE GRADUATE FACULTY

- Bell, Alfred** ..... Instructor of Industrial Education & Technology  
 B.S. 1960, Prairie View A&M University  
 M.S. 1966, Prairie View A&M University  
 TEA Certified Vocational Industrial Teacher
- Bonner, Pauline (1971)** ..... Assistant Professor of Business  
 B.A. 1964, Prairie View A&M College  
 M.B.A. 1965, University of Houston  
 Adv. Study: University of Houston
- Boucher, Lydia K. (1972)** ..... Associate Professor of Education  
 B.S. 1940, Sul Ross University  
 M.S. 1941, Sul Ross University  
 Further Study: Texas University, University of Houston University of St. Thomas
- Boudreaux, Dorothy** ..... Instructor of Industrial Education & Technology  
 B.S. 1970, Texas Southern University  
 M.A. 1972, Texas Southern University  
 TEA Certified Vocational Industrial Teacher
- Brann, Herman** ..... Associate Professor of Economics  
 B.S. 1967, University of West Indies  
 M.S. 1971, Cornell University  
 ABD 1980, University of West Indies
- Briley, Carl (1975)** ..... Associate Professor of Education  
 B.S. 1972, East Texas State  
 M.S. 1973, East Texas State  
 Ed.D. 1976, East Texas State
- Brooks, Lott** ..... Instructor of Industrial Education & Technology  
 B.S. 1959, Texas Southern University  
 M.Ed. 1971, Prairie View A&M University  
 TEA Certified Vocational Supervisor  
 TEA Certified Vocational Industrial Teacher
- Carreathers, Raymond E. (1967)** ..... Assistant Vice-President for Student Affairs & Associate Professor of Education  
 B.S. 1947, Prairie View A&M University  
 M.Ed. 1966, Southeastern State College  
 Further Study: East Texas State, North Texas State, University of California
- Cherry, Emery Dean** ..... Instructor of Industrial Education & Technology  
 B.A. 1953, Stephen F. Austin University  
 M.Ed. 1957, Stephen F. Austin University  
 TEA Certified Vocational Industrial Counselor
- Chung, Yong H. (1978)** ..... Associate Professor of Education  
 B.A. 1958, Kongju Teachers College  
 M.S. 1961, Southern Illinois University  
 Ph.D. 1965, University of Oklahoma
- Clark, Ross D. (1972)** ..... Associate Professor of Education  
 B.S. 1960, Texas Tech University  
 M.S. 1964, Sul Ross University
- Coleman, Leroy (1976)** ..... Assistant Professor of Counselor Education  
 B.S. 1967, Prairie View A&M University  
 M.Ed. 1973, Prairie View A&M University  
 Further Study: Texas A&M University
- Collier, Savannah M. (1968)** ..... Instructor of Business Education  
 B.S. 1946, M.. 1965, Prairie View A&M College  
 Further Study: Texas Southern University; University of Houston; Lee College

## ASSOCIATE GRADUATE FACULTY

- Davis, Hulen M. (1965) . . . . . Associate Professor and Acting  
Head-Department of Political Science  
B.A. 1957, Prairie View A&M University  
M.Ed. 1963, Prairie View A&M University  
Further Study: Texas A&M University
- Dearman, Thelma . . . . . Instructor of Industrial Education  
& Technology  
B.S. 1968, Prairie View A&M University  
M.S. 1976, Prairie View A&M University  
TEA Certified Vocational Industrial Teacher
- Dade, Billy (1970) . . . . . Associate Professor of Education  
B.A. 1942, Bishop College  
M.A. 1948, Prairie View A&M University  
Ed.D. 1969, North Texas State University
- Dickson, Jerry Douglas (1975) . . . . . Associate Professor of Education  
B.S. 1965, North Texas State  
M.S. 1967, North Texas State
- Eaton, Helen . . . . . Instructor of Industrial Education  
& Technology  
B.A. 1949, Prairie View A&M University  
M.S. 1954, Texas Southern University  
TEA Certified Vocational Industrial Teacher
- English, Leon G. (1969) . . . . . Associate Professor of Health,  
Physical Education & Recreation,  
& Coordinator of Health Education  
B.S. 1948, Prairie View A&M University  
M.S. 1949, Prairie View A&M University  
Adv. Study: Texas A&M University
- Garrett, Conally Shelton (1948) . . . . . Assistant Professor of Music  
B.S. 1943, Prairie View A&M College  
M.Mus. 1948, New England Conservatory of Music  
Further Study: Harvard University; Eastman School of Music; Private Piano  
Study with Albert Hirsch; University of Arizona; University of  
Houston; University of Missouri
- Glenn, Leon . . . . . Instructor of Industrial Education  
& Technology  
B.S. 1954, Prairie View A&M University  
M.S. 1971, Prairie View A&M University  
TEA Certified Vocational Industrial Teacher
- Guidy, Arrender . . . . . Associate Professor of Education  
B.S. 1939, Xavier University  
M.S. 1956, Prairie View A&M University  
Further Study: Atlanta University, Texas Southern University, Sam Houston State
- Hestand, Donald (1976) . . . . . Associate Professor of Education  
B.S. 1956, Texas A&I University  
M.A. 1957, Texas A&I University  
Ed.D. 1973, University of Houston
- Hinze, Virginia . . . . . Instructor of Industrial Education  
& Technology  
B.S. 1957, University of Houston  
M.Ed. 1961, University of Houston  
TEA Certified Vocational Counselor  
TEA Certified Vocational Supervisor
- Houston, David R. (1974) . . . . . Associate Professor of Education  
B.A. 1957, Texas College  
M.A. 1964, North Texas State University  
Ed.D. 1969, North Texas State University

## ASSOCIATE GRADUATE FACULTY

- Humphrey, James (1977)** . . . . . Associate Professor of Business  
 BBA 1970, Texas Southern University  
 Further Study: University of Houston
- Jenkins, Thomas V. (1978)** . . . . . Instructor, Administration and  
 Supervision  
 B.S. 1951, Sam Houston State University  
 M.A. 1958, Sam Houston State University  
 Ph.D. 1960, University of Texas
- Kirven, Jameanna (1958)** . . . . . Associate Professor of Business  
 B.A. 1940, Samuel Houston University  
 M.A. 1945, Bloomington, Indiana University  
 M.S. 1946, Bloomington, Indiana University  
 Ph.D. 1957, Bloomington, Indiana University
- Ledbetter, Frankie B. (1952)** . . . . . Associate Professor of English  
 A.B. 1935, Bishop College  
 M.A. 1952, University of Colorado  
 Further Study: University of Colorado, University of Indiana
- Lee, Theodore (1975)** . . . . . Associate Professor of Education  
 B.A. 1950, Jarvis Christian College  
 M.Ed. 1957, North Texas State University
- Mack, Joseph (1963)** . . . . . Associate Professor of Industrial Arts  
 B.S. 1943, Hampton Institute  
 M.S. 1949, Pennsylvania State University  
 Further Study: University of Houston; Texas Instruments, Inc.;  
 Prairie View A&M University
- Manford, James B.** . . . . . Instructor of Industrial Education  
 & Technology  
 B.A. 1948, Austin College  
 M.Ed. 1975, Southwest Texas State University  
 TEA Certified Vocational Industrial Teacher
- Martin, Ozita (1980)** . . . . . Associate Professor of Education  
 B.S. 1962, Grambling College  
 M.Ed. 1967, Southern University  
 Adv. Study: East Texas State University
- Martin, William** . . . . . Instructor of Industrial Education  
 & Technology  
 B.S. 1964, Sam Houston State University  
 M.A. 1975, Prairie View A&M University  
 TEA Certified Vocational Industrial Teacher
- Mitchell, Rosa L.** . . . . . Instructor of Industrial Education  
 & Technology  
 B.S. 1954, Bishop College  
 M.S. 1969, Prairie View A&M University  
 TEA Certified Vocational Industrial Teacher
- Moore, Charles (1973)** . . . . . Associate Professor of Education  
 B.S. 1943, Fisk University  
 M.A. 1950, Fisk University
- McDonald, Lucy Davis** . . . . . Associate Professor of Education  
 B.S. 1940, Prairie View A&M University  
 M.A. 1948, Prairie View A&M University
- McQueen, William F. (1978)** . . . . . Associate Professor of Music &  
 Director, Marching Band  
 B.S. 1973, Florida A&M University  
 M.M. 1974, Florida State University  
 Further Study: Recitals & Course Work Completed — Michigan State University

## ASSOCIATE GRADUATE FACULTY

- Nowlin, Terry ..... Instructor of Industrial Education  
& Technology  
A.A. 1959, Lee College  
B.S. 1961, Sam Houston State University  
M.Ed. 1973, Prairie View A&M University  
Ph.D. 1980, Loyola University  
TEA Certified Vocational Industrial Teacher
- Perkins, Carlton Lee (1979) ..... Instructor of Business  
B.A. 1973, Norfolk State University  
M.B.A. 1976, Texas Southern University  
J.D. 1978, Texas Southern University
- Poindexter, Jimmie LeRuth (1971) ..... Associate Professor of Sociology  
B.A. 1955, Prairie View A&M University  
M.S.W. 1957, Howard University
- Pullen, John W. .... Instructor of Industrial Education  
& Technology  
B.S. 1953, Texas A&M University  
M.S. 1955, Texas A&M University  
TEA Certified Vocational Supervisor  
TEA Certified Vocational Industrial Teacher
- Randle, Charles F. (1963) ..... Associate Professor of Education  
B.S. 1949, Prairie View A&M University  
M.S. 1950, Prairie View A&M University
- Searsey, Andrew Jr. (1980) ..... Instructor of Business  
B.S. 1974, Knoxville College  
M.B.A. 1975, Georgia College  
Adv. Study: Northwestern University
- Slater, Gerald (1978) ..... Associate Professor of Education  
B.S. 1963, North Texas State  
M.A. 1966, North Texas State  
Ed.D. 1973, North Texas State
- Slaughter, Doraine ..... Associate Professor of Sociology  
B.A. 1974, Kentucky State University  
M.S.W. 1975, University of Kentucky  
Adv. Study: University of Houston
- Sneed, Theresa B. .... Instructor of Industrial Education  
& Technology  
B.A. 1956, Bishop College  
M.S. 1969, Prairie View A&M University  
TEA Certified Vocational Industrial Teacher
- Summers, Ruby (1970) ..... Associate Professor of Education  
B.A. 1950, Texas Southern University  
M.A. 1955, Texas Southern University  
M.Ed. 1971, Prairie View A&M University  
Adv. Study: University of Houston
- Summers, Victor (1969) ..... Assistant Professor of Education  
B.A. 1948, Louisiana Tech  
M.A. 1948, University of Texas
- Terry, Neri ..... Instructor of Industrial Education  
& Technology  
B.S. 1936, Sam Houston State University  
M.A. 1970, Sam Houston State University  
TEA Certified Vocational Industrial Teacher
- Wards, Vertie ..... Instructor of Industrial Education  
& Technology  
B.A. 1951, Louisiana College  
M.Ed. 1968, McNeese State University  
TEA Certified Vocational Industrial Teacher

## ASSOCIATE GRADUATE FACULTY

- Weatherspoon, Lindsey (1953)** ..... Assistant Professor of  
Animal Science  
B.S. 1948, Georgia State College  
M.S. 1953, Kansas State College  
Further Study: University of Wisconsin; Iowa State University
- Whiteley, Johnnie B.** ..... Instructor of Industrial Education  
& Technology  
B.S. 1949, East Texas State  
B.S. 1951, LeTourneau Technical Institute  
M.Ed. 1955, Texas A&M University  
TEA Certified Vocational Supervisor  
TEA Certified Vocational Industrial Teacher
- Williams, Lora L. (1978)** ..... Instructor of Education  
B.A. 1973, Fisk University  
M.S. 1976, George Peabody College  
Further Study: Vanderbilt University
- Woodard, Chester A. (1980)** ..... Instructor of Business  
B.S. 1968, Tuskegee Institute  
M.S. 1972, Southern Illinois University  
M.B.A. 1975, Texas Southern University  
Certified Public Accountant
- Woods, Daisy (1976)** ..... Associate Professor of Business  
B.A. 1963, South Carolina State  
M.B.A. 1973, Columbia University
- Wossene, Andreas (1977)** ..... Associate Professor of Business  
B.S. 1974, University of Wisconsin  
M.P.A. 1976, University of Texas, Arlington  
C.P.A. 1978, State of Texas
- Wright, Hoover J. (1961)** ..... Associate Professor of Health,  
Physical Education & Recreation  
and Athletic Director and Head Coach  
B.A. 1948, Maryland State  
M.Ed. 1951, Pennsylvania State



# GENERAL INFORMATION

## ADMISSION

### GENERAL ADMISSION REQUIREMENTS

Prairie View A&M University accepts applications for admission without regard to race, color, national origin or religious commitment. All communications in regard to admission should be addressed to the Director of Admissions, Prairie View A&M University, Prairie View, Texas 77445.

## LOCATION

Prairie View A&M University is located in Waller County, forty-six miles northwest of Houston. Buses discharge passengers at the Prairie View Station. Taxi Service is available to and from the station.

## PURPOSE

Three separate and distinct functions of Prairie View A&M University are clearly set forth in State and Federal acts for its establishment and support.

First, it is an institution for the preparation and training of teachers.

Second, it is to offer arts and scientific curricula.

Third, it is a Texas Land Grant institution providing opportunities for training in Agriculture, Home Economics, Engineering and related branches of learning.

In addition, the institution offers training in health and education so that it may give to the state professionally trained nurses and provide opportunities for observation and practice to newly graduated students of medical colleges.

Prairie View A&M serves the citizens of Texas at the points of greatest needs and endeavors to bring the students' training into closer relationship with life's occupations.

The central theme of the philosophy of the institution is that education must have the objective of making a worthwhile life and respectable living.

## MISSION

PRAIRIE VIEW A&M UNIVERSITY OF TEXAS, a part of The Texas A&M University System, is a public co-educational institution of higher education. It is also a land-grant University authorized under the Morrill Acts of 1862 and 1890.

The mission of Prairie View A&M University is to provide equal educational opportunity in higher education for students, faculty, staff and the general public without regard to race, color, creed, sex, national origin or physical handicap, consistent with the Assurance of Compliance with Title VI of the Civil Rights Act of 1964.

The University's central mission includes academic, research, public service and international affairs programs. The academic programs lead to the associate, baccalaureate, master's, doctorate and professional degrees. The research program of the University includes statewide centers of the Texas Agricultural Experiment Station and the Texas Engineering Experiment Station. The public service program of the University includes a statewide Prairie View Division of the Cooperative Extension Service, the statewide Center for Community Affairs and Rural Development, and a regional center for Energy Affairs. The International Affairs program of the University is global, but chiefly serves Africa and the Caribbean area.

In addition to its designation as a general purpose institution of higher education and its designation as a land-grant institution, Prairie View A&M University is also a statewide special purpose institution of higher education for instruction, research, public service and other programs which are appropriate to assisting special student populations and for assisting in the development of small and medium sized businesses and communities.

## GENERAL INFORMATION

The mission of the University is further to focus its efforts particularly and primarily on the micro-aspects of the society as opposed to the macro-aspects. It is not the intent of the University to separate itself from macro-society involvement, as this is impossible. It is the intent of the University to claim uniqueness in specializing in: (1) emphasis in accessing special student populations into the mainstream of the democratic, economic, social and political society; (2) emphasis on the micro-levels of business, industry, government, communities, economics, politics, health, environment and other relevant community and societal needs; and, (3) emphasis on developing programs and knowledge bases and first-class quality in all areas of the mission of the University.

As a part of The Texas A&M University System, Prairie View A&M University also participates in Sea Grant Programs and in Marine Science Programs. Legally, the institution is statewide in scope and serves students primarily from north, south, east and central Texas, but also draws students from major cities in west Texas. Professionally, the University is international in scope and serves the nation and the world.

### THE ROLE AND SCOPE

1. Undergraduate Level
  - a. Special Certificates of Proficiency
  - b. Certificate Programs for Teacher Education
  - c. Associate Degree Programs
  - d. Bachelor's Degree Programs
2. Graduate Level
  - a. Academic Specialization Courses
  - b. Master's Degree Programs
  - c. Doctorate Degree Programs
3. Teacher Education
  - a. Pre-Service Teacher Education
  - b. In-Service Teacher Education
4. Pre-Professional Education

Preparatory Programs for entry into Professional Programs such as Medicine, Dentistry, Law, Vet-Medicine, etc.
5. Professional Programs

Programs of a Post Bachelor's level in a recognized profession. (i.e., Social Work)
6. Land-Grant and Sea-Grant Scope

Those programs authorized by the Morrill Acts and subsequent Acts and designated as Land-Grant or Sea-Grant University functions.\*
7. ROTC

Reserved Officer Military Training for Army, Navy, Marines and other services.
8. Adult Education or Life-Long Learning

Those programs recognized for credit and non-credit and designated as Adult Education or Life-Long Learning.
9. Continuing Education

Those courses or programs recognized as Continuing Education for which C.E.U.'s may be awarded.
10. Research

The discovery of knowledge and investigation of facts or principles as related to the micro-aspect of society and particularly to low income and culturally distinct individuals and communities, but open to any other aspects of the society.
11. Public Service and Extension Service

The delivery of information, assistance, aid, products and/or any other items of use to the micro-aspect of communities and particularly to low income and culturally distinct individuals and communities, but available to other segments of the society.

## 12. Open Access

To provide open access to the University for individuals, with adequate safeguard for recognized standards, but removing interventions which have little relevance to exit standards and terminal success measures or indicators.

## 13. Marine Sciences

To provide those relevant programs in marine sciences in the areas of teaching, research and public service.

## 14. International Affairs

To serve as a state and national resource area in providing relevant international programs, particularly, but not exclusively, in the Third World African and Caribbean nations.

## 15. Special Programs

To provide those special programs which particularly serve, but are not limited to, the micro-aspect of society and low income and culturally distinct individuals and communities. Included are such programs as:

- Prairie View Center Texas Agricultural Experiment Station
- Prairie View Center Texas Engineering Experiment Station
- Prairie View Energy Affairs Center
- Community Affairs and Rural Affairs Center
- Cooperative Extension Service

\*Sea Grant efforts are in support of and in cooperation with Texas A&M University.

## OBJECTIVES

1. To serve as a statewide institution of higher education which provides equality of educational opportunity for all citizens without regards to race, creed, color, sex, religion or physical handicaps.
2. To access and mainstream low income and culturally distinct individuals and communities into the major sector of the social and economic system of the state and nation.
3. To foster cultural pluralism as an essential element of the democratic society and of the national and statewide system of higher education.
4. To serve as a historically Black institution of higher education which is racially integrated and non-racially segregated.
5. To provide a setting and opportunity for the racial majority to have the experience of being a racial minority.
6. To foster and implement the ultimate worth and optimal development of the individual.
7. To provide for the upward mobility of individuals in the democratic society.
8. To foster success achievement in each student.
9. To foster job relevant saleable skills and high quality competencies for the individual and the community.
10. To foster the "Reality Education Process" in individual and institutional development and growth.
11. To foster a humanistic-pragmatic philosophy of life and living.
12. To foster Judeo-Christian ethics and values as a way of life.
13. To foster free enterprise and capitalism in a democratic society.
14. To foster the preservation, transmission and improvement of democracy as a governmental and political system for the State and Nation.
15. To foster and implement the ultimate worth and optimal development of the natural and physical environment.

## GENERAL INFORMATION

16. To preserve, transmit and improve the Afro-American Heritage.
17. To serve as a statewide and national resource center to support United States Foreign Policy through assisting developing nations particularly Third World African and Caribbean nations.
18. To explore, foster, and maximize the potential and the micro-aspects of state, national, and world communities and use the micro-aspects as major, essential, and complementary elements with the macro-aspects of society.

## GOALS

The goals of Prairie View A&M University are established in relationship to: (1) the Individual, (2) the Society, (3) Knowledge, (4) Leadership, and (5) First-Class Quality.

### 1. THE INDIVIDUAL

To provide for the optimal development and success of the individual through:

#### a. *Undergraduate Education*

A goal of Prairie View A&M University is to provide an undergraduate education of first-class quality. The undergraduate program should include, but not be limited to: (1) Agriculture and Renewable Resources, (2) Engineering and Non-Renewable Resources, (3) Home Economics, (4) Industrial Education and Technology, (5) Business and Economics, (6) Teacher Education, (7) Arts and Sciences, (8) Nursing, (9) Social Work, (10) Health Sciences, (11) Community Affairs and Rural Development, and (12) Marine Sciences.

#### b. *Graduate Education*

A goal of Prairie View A&M University is to provide a graduate program of first-class quality for the optimal academic and professional success in terms of advanced scholarship, research, problem solving capabilities, and administrative and management leadership roles.

#### c. *Professional Education*

A goal of Prairie View A&M University is to provide professional education programs of first-class quality in Social Work and other authorized areas.

#### d. *Life-Long Learning*

A goal of Prairie View A&M University is to provide first-class quality life-long learning experiences as revealed by the needs of individuals or the local, state, regional, national or international community.

### 2. THE SOCIETY

The goals of Prairie View A&M University are related in a relevant and meaningful manner to its societal communities, particularly the micro-aspects, i.e., local, state, regional, national and international in terms of understanding, interpreting, investigating, researching, rendering service and assisting in improvements of the society in relationship to present and future problems.

### 3. KNOWLEDGE

A goal of Prairie View A&M University is to identify, transmit, preserve, investigate, discover and validate knowledge beneficial to low income and culturally distinct people as well as the general population.

### 4. LEADERSHIP

A goal of Prairie View A&M University is to foster first-class leaders and leadership through the quality of the persons it develops, the programs it offers, the research it conducts, and the services it renders.

### 5. FIRST-CLASS QUALITY

A goal of first-class quality is given to the University in its statutory authority as well as its philosophical orientation. The University relates high quality to its own purpose and role, to its own mission, and to its own goals. Prairie View A&M University must develop its own model for achieving distinction in those aspects of the educational enterprise which will ensure a position of prominence in higher education. "First-class", if it is to be meaningful, however, must be defined in terms of universal standards.

Therefore, the same criteria of first-class quality applied throughout all higher education must also apply to Prairie View A&M University. In seeking to achieve these standards, the students, faculty, administrators and alumni must demand of themselves whatever is necessary to achieve this goal. The State Legislature together with the federal government, private foundations and friends of the University, must be willing to provide the financial means to make first-class quality possible in the University and in all of its undertakings.

## INSTRUCTIONAL ORGANIZATION

The institution is organized for instruction into nine major divisions as follows:

- 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 Home Economics
- The College of Industrial Education and Technology
- The College of Nursing
- The Graduate School

## HISTORY

The Fifteenth Legislature of the State of Texas met in the year 1876. One of the acts of that Legislature provided for the establishment of "An Agricultural and Mechanical College" for Negro citizens to be located in Waller County. L. M. Minor was elected first teacher of the school (Alta Vista Agricultural College). He served in this capacity from 1878 to 1879. In the last year of his principalship a legislative act provided for reorganization of the college and made funds available for the training of public school teachers therein. The teaching of Military Tactics was initiated in compliance with the Legislative act of 1876.

The second principal, E. H. Anderson, served from 1879 to 1884; and L. C. Anderson, the third principal, held the position for the next twelve years. The gray stone Administration building, whose architectural design was widely admired, was erected in 1889, and the Old Agricultural Building was erected in 1890. During L. C. Anderson's administration, the 20th Legislature agreed to an "Agricultural and Mechanical Department" to be attached to the Normal; the Hatch Act brought the college a branch Experiment Station.

For the next nineteen years, E. L. Blackshear served "Prairie View Normal" as principal. During his administration, significant growth was made in the curriculum and the plant. In 1889 the name was changed to "Prairie View State Normal and Industrial College," and the new name indicated the enlargement of the curriculum. A four-year college course was authorized by the State Legislature in session 1901. Among additions to the plant were two dormitories for men, Foster Hall (1909) and Luckie Hall (1909); a dormitory for women, Crawford Hall (1912); and a combination Auditorium-Dining Hall building (1911).

I. M. Terrell, the fifth principal, held the position during the war years 1915-1918. Despite the world conflict, the school plant expanded widely to accommodate mechanic and household arts; a Household Arts Building, the Power and Ice Plant, and the Laundry were erected in 1916; and in 1918 Spence Building for the Division of Agriculture was erected. The close of World War I brought the activation of a 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. Six buildings were added to the College in 1924 and 1925; the Veterinary Hospital, the Science Building, the College Exchange, the Elementary Training School, a Home Economics Practice Cottage, and a Music Conservatory. The Nursing Division was founded in 1918.

## GENERAL INFORMATION

In 1926, W. R. Banks became the seventh principal of Prairie View. He served until August 31, 1947, at which time he became Principal Emeritus. He held the position longer than any of his predecessors, and Prairie View developed along several lines in his period. The physical plant doubled its size by adding six buildings valued at more than \$100,000.00 each. The Dining Hall and the Hospital, three apartment houses for men teachers, three dormitories for women, a greenhouse, an incubator house, a classroom building, a new Auditorium-Gymnasium, a new Mechanic Arts building, and over sixty cottages for families were additions to the physical plant.

One of the significant studies of the period was an exhaustive examination of the objectives and purposes of Prairie View in 1933-34. Out of the study emerged Principal Bank's most often quoted statement: "Prairie View College must serve the State of Texas at the points of her greatest needs." The establishment of the Prairie View Conference on Education in 1931 is an important event in the history of the University. In the years that the Conference has met, Prairie View has been host to educators, ministers, doctors, business men and women, housewives, social workers, and farmers.

In the establishment of the Division of Graduate Study in 1937 Prairie View University added another page to its expanding history.

In 1936 the first buildings were constructed to house the N.Y.A. resident center, and a new chapter in Vocational Training for youth was opened. The project was enlarged and made a training center for Negro men in critical occupations for support of the war effort. The men filled positions as welders, mechanics, pipe fitters, machine operators, and moulders in shipyards, foundries, and machine shops all over the nation. The project terminated in July 1943. The facilities are now used for vocational trade courses.

In July 1943, a training unit of the Army Specialized Training Program was established with a maximum strength of 200 trainees enrolled in BE-1 Curriculum.

In 1943, when the Forty-eighth Legislature met in January, it appropriated \$160,000.00 for the erection of a Library Building. This amount was supplemented by \$20,000.00 for equipment and books.

The name of the college, Prairie View Normal and Industrial College, was changed to Prairie View University in 1945, by an act of the 49th Legislature.

The Forty-ninth Legislature passed the bill permitting Prairie View University to offer, as the need arises, all courses offered at the University of Texas.

On September 1, 1946, Dr. E. B. Evans became the eighth principal of Prairie View.

The Fiftieth Legislature of the State of Texas, by Act signed by the Governor on February 27, 1947, changed the name of the school from Prairie View University to Prairie View Agricultural and Mechanical College of Texas. The Act provided that courses be offered in agriculture, the mechanic arts, engineering and the natural sciences connected therewith, together with any other courses authorized at Prairie View at the time of the passage of this Act, all of which shall be equivalent to those offered at the Agricultural and Mechanical College of Texas.

In March, 1947, the old Academic Building which housed the principal administrative offices, was destroyed by fire. The Fiftieth Texas Legislature, which was then in session, made an emergency appropriation of \$300,000.00 for the erection of the present Administration Building which was completed in March 1949.

The title of the Principal was changed to Dean by the Board of Directors and became effective during the 1947-48 school year. On September 1, 1948, the title of Dean was changed to President and on December 3, 1948, E. B. Evans, the eighth Principal, was inaugurated as the first President of Prairie View Agricultural and Mechanical College of Texas.

The Divisions of Agriculture, Arts and Sciences, Home Economics, and Mechanics Art were changed to Schools of Agriculture, Arts and Sciences, Home Economics, and Engineering, effective September 1, 1950. The Directors of the respective schools were named Deans, becoming effective at the same time.

A new women's dormitory was completed in September 1950 at a cost of \$350,000.00 and was named for the late Dean of Women, Miss M. E. Suarez. It houses 247 women and has facilities for recreational and social activities. A similar building for male students,

named for a former teacher, J. M. Alexander, was completed in 1952. The E. B. Evans Animal Industries Building, valued at \$284,000.00, was completed in 1951, and the Gibb Gilchrist Engineering Building in 1952, at a cost of \$258,170.00.

Construction of still more adequate housing for the rapidly-growing student body was completed in early 1955 with additions to Suarez Hall and to Alexander Hall costing approximately \$550,000.00. These additions provided space for 240 more women students and 250 more men students.

A dairy barn and utilities warehouses were completed at a cost of \$32,000.00 and \$15,000.00 worth of water and sewer line installations were added to the college system. Construction of an exchange store and single faculty women's and single faculty men's dormitories were also completed in 1955. The latter has been named for George W. Buchanan, former manager of the exchange and ex-teacher of mathematics. The Faculty Women's dormitory was named for the late Lucille B. Evans, wife of President E. B. Evans. The hospital of 1939 has recently been named for J. C. Osborne, the sixth principal of the College.

A new and completely modern Home Economics building, named for Mrs. Elizabeth C. May Galloway (Elizabeth C. May building) former Dean of the School of Home Economics, was added in 1957. The old Home Arts structure was renovated into a modern Music Building.

The Board of Directors of the Texas A&M University System approved a \$3,000,000.00 building and improvement program for the college in 1957. The new \$1,000,000.00 Memorial Student Center was completed early in 1960 and construction on a \$2,000,000.00 science building was completed in 1961. Other construction during this period included building utilities, street extensions, storm sewers and underground electric facilities. The \$1,500,000.00 Health and Physical Education Building, with seating capacity of 5,000 was completed in 1964. In 1965 two new air-conditioned dormitories, valued at \$2,500,000.00 were completed to house 900 students (450 male and 450 female). The Spring Semester of the 1966-67 Year, construction began on a half-million dollar addition to the W. R. Banks Library.

The College was accepted for membership in the Southern Association of Colleges and Secondary School in December, 1958, and later received reendorsement and full approval of the National Council for Accreditation of Teacher Education. Improvements in offerings and facilities for Science, Mathematics and Engineering also resulted during the years from 1958 to the present time.

President E. B. Evans, who in 1959 became eligible for modified retirement, was asked by the Board of Directors to continue as President of the College. This great tribute came in the midst of many other state and national honors for Dr. Evans in recognition of outstanding service to education.

His services continued until August 31, 1966, at which time he was bestowed the title, President Emeritus.

On September 1, 1966, Dr. J. M. Drew, who had served as Dean of Instruction and Dean of Graduate Studies became the second president of Prairie View Agricultural and Mechanical College. Shortly after taking office, Dr. Drew became ill and, as a result of his asking to be relieved of his office the Board of Directors asked President Emeritus Evans to serve as Acting President.

On November 22, 1966, the Board of Directors elected as the third president, Dr. Alvin I. Thomas. Prior to his elevation to the presidency, Dr. Thomas had served as Dean of the School of Industrial Education and Technology. Dr. Thomas introduced, for Prairie View A&M, the concept of the residential college. In one of his early addresses, Dr. Thomas said, "Resting on some 1440 acres of beautiful countryside — 30 minutes from the largest city in the South and 5th largest city in America. Prairie View can create an environment which will contain only those influences which will affect a student for good and we can lock out the intellectual pollution of the cities and give the students a refreshing, undistracted experience aimed at maximum personal, social and intellectual growth."

At Prairie View A&M, practically all of the students live in residential halls; because of this arrangement, the University has the ability to provide a special kind of learning situa-

## GENERAL INFORMATION

tion; the residence halls, as well as the library and the classrooms are learning centers. As a residential University, Prairie View uses all of its resources to provide the greatest number of influences which will act to develop a student in the fullest possible manner.

On May 19, 1968, the Naval ROTC Unit was established at the College. It was the first new unit to be established in 22 years and the first at a predominantly Negro College.

At the request of President Thomas, the Board of Directors, in August, 1968 appointed seventy-nine persons to comprise the Centennial Council. The Council was requested to formulate a master plan for guiding the future of the University. The Council, broadly representative of the national and state geographical areas, and of various economic, ethnic, educational, social and professional backgrounds, upon the completion of sixteen months of deliberate and serious study presented its recommendations in a published document, "A Developmental Plan, 1970-80, Prairie View A&M College of Texas."

One of the early outgrowths of the Council's masterplan occurred in the Fall of 1970, when the Board of Directors sold in excess of thirteen-million dollars in bonds for the construction of two residence halls and a dining facility. The residence halls, accommodating 1,500 students, were opened for occupancy in August, 1972. The dining facility was opened the second semester of the 1972-73 academic year.

Other major completed construction representing outgrowths of the master plan for Prairie View A&M includes Hobart Taylor Hall, The Owens Franklin Health Center, Engineering Building, Fire Protection and Security, Laundry, Teacher Center and Burleson-Ware ROTC Building. In 1980 the University purchased an existing building in the Houston Medical Center for \$2.3 million which will serve as the clinical center and headquarters for the College of Nursing.

In addition a total of more than \$12 million has been spent for building renovation and repair. The total value of the physical plant had increased from \$12 million in 1966 to well over \$50 million by the end of 1980.

By virtue of legislation enacted by the 63rd Legislature of the State of Texas, Prairie View A&M College was named Prairie View A&M University.

## THE W. R. BANKS LIBRARY

The building housing the library, named in honor of a former chief executive of the University, has two stages of physical growth. The first section was completed in 1945 at a cost of \$171,869.91. A half million dollar addition was completed in 1968.

The building has three floors and a book stack section with four levels. The library has a book capacity of 301,000 volumes and study space for 550 students simultaneously.

The library, being air-conditioned, is ideal for serious study, for investigation and research, and for recreational reading. Its beautiful and convenient study appointments include the Reference Room, seating 176; the Reserves Reading Room, seating 147; the Graduate Study Room, seating 52; the Current Periodicals Reading Room, seating 42; the Special Collections Room, seating 20; and the Reading Lounge, seating 31. Artistic tastes of readers are fostered in the Art Room.

The collections of the library include 245,000 books, 103,692 microforms, a Texas Documents Collection of 5,000 items, Special Collections of Afro-Americana, Prairie Viewana, master's theses, and curriculum materials as well as archival holdings of 14,708 items. The library currently subscribes to 2,200 periodicals.

The library contains an admirable and growing bibliographic apparatus including author-title card catalogs; subject-card catalogs; kardex files containing indexes to the library's holdings in journals, newspapers, documents, etc.; printed catalogs such as those of the Library of Congress and the British Museum; periodical indexes, bibliographies (international, national, regional, local, subject, special); abstracts and abstract journals; research reporting journals; bibliographic journals; union lists of important printed materials; and guides to various resources.

In addition to the resources of the W. R. Banks Library, readers may have access to those of other libraries through inter-library loans and other cooperative arrangements. The library staff will make such arrangements upon proper request.

## GENERAL INFORMATION

To secure the greatest benefit from the services made available to readers in the library, each reader must become acquainted with library rules and regulations and should seek timely guidance from the qualified members of the library staff.

The library and its facilities contribute to the academic climate of the University by providing comfortable, convenient, adequate and beautiful study areas for those who must do assigned readings, for serious readers, for scholars, and for those who will read for general development and cultural advancement.

To facilitate effective use of the library on the part of its readers, the staff in each service area gives consultation, informational, and directional services to those who require such services. Please feel free to request such help when it is needed.

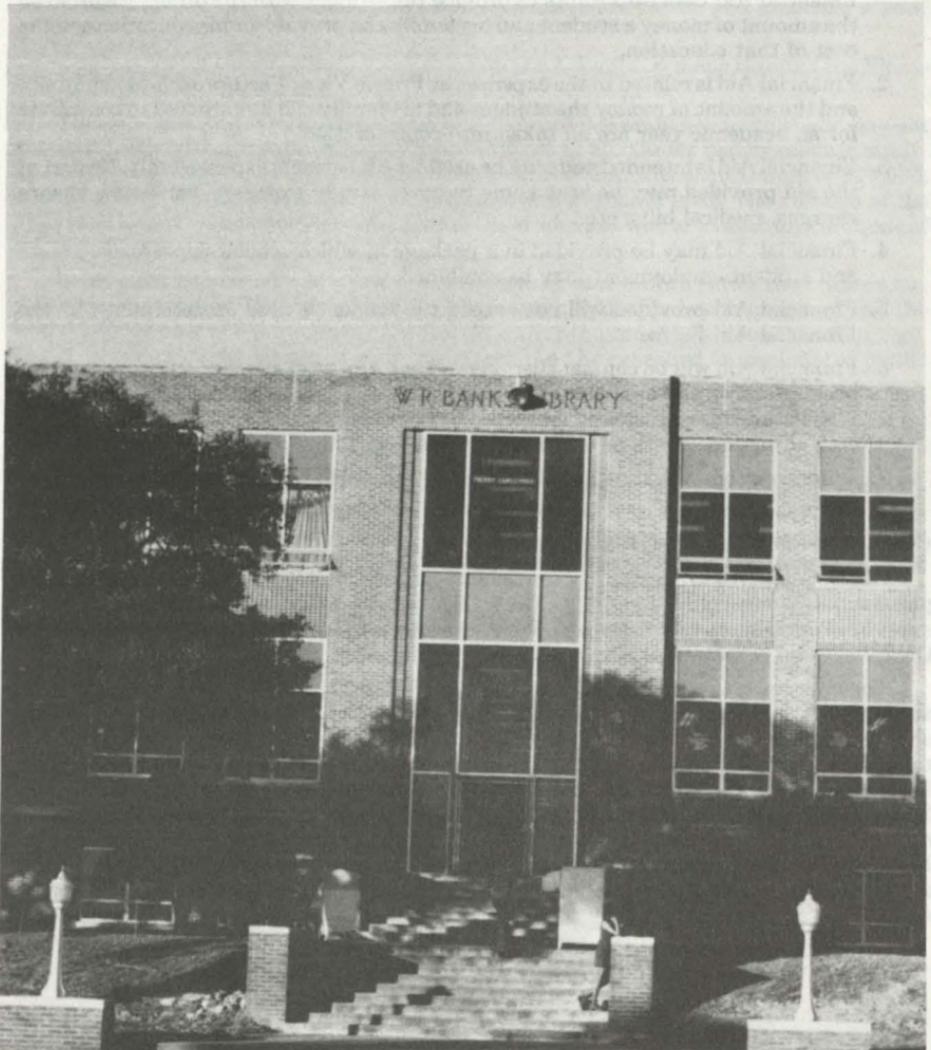
Library Service hours are as follows:

Monday-Friday: 8:00 a.m.-10:00 p.m.

Saturday: 8:00 a.m.-5:00 p.m.

Sunday: 2:00 p.m.-10:00 p.m.

Any exceptions to these hours will be posted in the library.



# STUDENT FINANCIAL AID

**A. D. James, Jr., Director**

The Financial Aid Program at Prairie View is designed to give assurance that no deserving student of ability will be denied an opportunity for higher education because of financial need.

The Financial Aid Center Administers the following programs:

1. Student Employment
2. Student Loans (all types)
3. Student Scholarships
4. Student Financial Grants
5. Counseling and Advisement on Financial Aid

## **BASIC GUIDELINES FOR STUDENTS SEEKING FINANCIAL AID**

1. In general, financial aid at Prairie View A&M University is based on need. The Financial Aid Office attempts to provide the student with the difference between the amount of money a student and his family can provide for his education and the cost of that education.
2. Financial Aid is related to the expenses at Prairie View. Factors such as family size and the amount of money the student and his family can be expected to contribute for an academic year are all taken into consideration.
3. Financial Aid is intended and may be used for educational expenses only. No part of the aid provided may be sent home to cover family expenses, car notes, finance charges, medical bills, etc.
4. Financial Aid may be provided in a package in which scholarships, loans, grants and student employment may be combined.
5. Financial Aid provided will not exceed the student's need as determined by the Financial Aid Form.
6. Financial Aid will be constantly reviewed and adjusted as other student resources become known and available. This means that after the need award has been made, if the student receives a scholarship, Social Security benefits, Veterans benefits, etc., adjustments will be made to eliminate overfunding the needs of the student.
7. Where appropriate, the financial aid adjustment will be made by reducing the loan first.

## **COLLEGE SCHOLARSHIP SERVICE**

Prairie View A&M University participates in The College Scholarship Service. Its primary functions include handling the confidential statements submitted by parents in support of applications for financial aid and serving as a clearing house of information for the colleges on scholarships, loans, and other forms of student aid.

The colleges using the CSS share the belief that scholarships should be awarded to students selected on the basis of ability and promise but that the amount of the awards should vary according to the financial need of the students and their families. The questions asked in the Financial Aid Form are designed to bring out the information needed by the colleges to understand fully the family financial picture, and to make certain the financial aid can be awarded to those qualified students whose need is greatest. Entering students seeking financial assistance are required to submit a copy of the Financial Aid Form (FAF) to the College Scholarship Service, designating Prairie View A&M University as a secondary school. Applications may be received by writing Prairie View A&M University.

## STUDENT EMPLOYMENT

Student employment provides an opportunity for a student to contribute in a meaningful way to the progress of the University and to his financial welfare. Down through the years, students have contributed their skills and efforts in making a better Prairie View A&M University through student employment. The University holds that work experience can be a real learning opportunity for the student and therefore may be considered an integral part of the student's educational experience.

Whenever feasible, students are encouraged to help defray expenses through part-time employment rather than through loans. In this way, they need not leave college with a monetary debt to repay.

## LOANS

**NATIONAL DIRECT STUDENT LOAN PROGRAM.** The Higher Education Amendments of 1972 provide for the National Direct Student Loan program. Long-term, low-interest loans are available for needy students. Each borrower must be enrolled or accepted for enrollment at the undergraduate, graduate, or professional level, be registered for at least one-half the normal course load, show need for funds, and maintain a good academic standing.

Application for the National Direct Student Loan should be made through the Financial Aid Office.

The loan limit for a student during his first two years of undergraduate study may not exceed \$2,500, with a maximum cumulative amount of \$5,000 for undergraduate study. Loans are available for the graduate or professional student, with a maximum of \$10,000, including loans made at both the undergraduate and graduate level. The amount of the individual loan is based upon financial need of the student as well as availability of funds of the institution.

Repayment time is normally ten years, beginning nine months after the student has completed his studies. There is no interest charges while the student is in school, but the loan draws interest of 3% beginning nine months after the time the student leaves school. Under certain circumstances a portion of the loan may be cancelled for designated public service.

The loan program replaces the National Defense Student Loan Program, enacted by Title II of the National Defense Education Act of 1958.

**UNITED STUDENT AID FUNDS (USAF) LOANS** are available to students through their local hometown banks on the recommendation of the University. This operates as the guaranteed loan program in Texas if the student is not in extreme need. Undergraduate students may borrow up to \$2,500.00. Students who attend an extra term during a given twelve month period may borrow up to \$2,500.00 per year. Graduate students may borrow \$5,000.00 each academic year. An undergraduate student may borrow up to \$5,000.00 maximum. A graduate student may borrow up to \$15,000.00.

The interest rate is seven per cent. Interest will be paid to the lender by the Federal Government while the student is in school, and three per cent interest will be paid while the student is repaying the loan, and provided the family income is \$15,000.00 or less.

A student need not begin repayment until the first day of the tenth month after he leaves school.

**HINSON-HAZLEWOOD COLLEGE STUDENT LOAN.** The Hinson-Hazlewood College Student Loan Program was enacted by the Texas Legislature and endorsed by Texas voters in 1965. The program was originally known as the Texas Opportunity Plan and is sometime referred to as the TOP loan. Funds are provided by the issuance of State of Texas bonds, and the Coordinating Board, Texas College and University System is responsible for administering the program. All accredited public and private non-profit institutions of higher learning in Texas are eligible to participate in the program.

## GENERAL INFORMATION

To apply for a loan in participating institution, an individual must (1) be a legal resident of Texas, (2) be accepted for enrollment or enrolled for at least one-half a normal academic course load and be meeting the academic requirements of the participating college or university, and (3) show that he has insufficient financial resources to finance his education.

A student may borrow no more than the difference between actual financial resources and reasonable college expenses. The maximum loan for a nine month academic year is \$1,500. Loans of up to \$500 are available for summer school. The maximum amount which may be borrowed under this program may not exceed \$7,500.

Federal insurance coverage is provided on all loans. An insurance premium of  $\frac{1}{4}$  of 1% per year is deducted from each loan for remission to the Federal Government.

The current interest rate is 7% per annum. If the student qualifies for federal interest subsidy benefits, the Federal Government will pay the interest until the time of repayment begins. Eligibility for federal interest subsidy benefits is based on the student's need for the loan.

Repayment of the loan begins nine months after the student ceases to be enrolled for at least one-half a normal course load. Payments must be made monthly, with the minimum payment being \$30.00. The loan repayment period may not exceed ten years from the date a student last enrolled in a participating institution.

Detailed information and application forms may be obtained through the Financial Aid Office.

## GRADUATE ASSISTANTSHIPS

Graduate teaching and research assistantships are available to students with exceptional academic records and promise for successful graduate study. Interested applicants should submit their applications and credentials to the office of the Dean, Graduate School. Application forms and dates to be submitted are available upon request through the Graduate School.

## VOCATIONAL REHABILITATION

The Texas Rehabilitation Commission offers assistance for tuition and nonrefundable fees to students who have certain disabling conditions provided their vocational objectives have been approved by a TRC Counselor. Examples of such conditions are orthopedic deformities, emotional disorders, diabetes, epilepsy, heart conditions, etc. Other services are also available to assist the handicapped students to become employable. Application for such services should be made at

Texas Rehabilitation Commission  
2001-C North Frazier  
Conroe, Texas 77301

## EXEMPTIONS FOR SERVICEMEN

Men and women who are citizens of Texas and who served in the armed forces in World War I, World War II, the Korean conflict, or in certain of the auxiliary services and were honorably discharged (except those who were discharged because of being over the age of thirty-eight or because of a personal request), and who are not eligible for educational benefits provided for veterans by the United States Government, are exempted from the payment of tuition under the provisions of the Hazlewood Act. Such persons must have entered the service as residents of Texas and must have been a resident for a period of not less than 12 months prior to the date of registration. For the purpose of the Hazelwood Act, the following definitions apply: World War I means the period beginning on April 6, 1917 and ending November 11, 1918; World War II means the period beginning on December 7, 1941 through December 31, 1946; and Korean conflict, June 27, 1950 through January 31,

1955. This exemption also extends to children of members in the armed forces who were killed in action or died while in the service in World War II or in the Korean conflict.

To obtain this exemption, a full-sized photostat or certified copy of the discharge papers must be filed for permanent record with the Veterans Counselor.

### DEADLINES FOR FILING FOR FINANCIAL AID

For Fall Semester Aid  
For Spring Semester Aid  
For Summer Session Aid

July 1  
November 1  
March 1

During the past few years college student financial aid has been steadily growing, and efforts to assist students to obtain an education have come from a variety of sources. Although most of the funds utilized to aid students are derived from sources outside the educational institution, the responsibility for administration of these funds still falls primarily on the educational institution.

It is important that the student seeking financial aid should contact the Financial Aid Office at Prairie View A&M University. The Financial Aid Officer because of his understanding of the wide range of programs and the flexibility of individual needs, is best able to make recommendations to assist the student.



# UNIVERSITY TUITION and STUDENT FEES

## EXEMPTIONS

### I. Statute provisions

#### A. Exempted from tuition

1. Highest ranking high school graduate
2. High school graduates of State homes
3. Veterans and veteran dependents no longer eligible under federal Veteran Administration programs
4. Dependent children of disabled or killed-on-duty firemen and peace officers
5. Blind and deaf students
6. Individuals eligible under "low income family" exemption
7. Students of other nations of the American hemisphere
8. Firemen enrolled in fire sciences courses
9. Children of prisoners of war or persons missing in action

#### B. Exempted from lab fees

1. High school graduates of State homes
2. Veterans and veteran dependents no longer eligible under federal Veteran Administration programs
3. Dependent children of disabled or killed-on-duty firemen and peace officers
4. Blind and deaf students
5. Individuals eligible under "low income family" exemption
6. Firemen enrolled in fire sciences courses
7. Children of prisoners of war or persons missing in action

#### C. Exempted from student fees<sup>1</sup>

1. Laundry fee — no exemptions
2. Student services fee
  - a. High school graduates of State homes
  - b. Individuals eligible under "low income family" exemption
  - c. Children of prisoners of war or persons missing in action
3. Building use fee
  - a. High school graduates of State homes
  - b. Veterans and veteran dependents no longer eligible under federal Veteran Administration programs
  - c. Blind and deaf students
  - d. Individuals eligible under "low income family" exemption
  - e. Children of prisoners of war or persons missing in action

D. Room, board, and deposits on property — no student is exempt unless he is not housed in campus housing, makes no use of board facilities, or makes no use of property on which a deposit is required.

### II. Attorney General Opinion's provisions

A. Opinion No. M-306 — blind and deaf students are exempted from all mandatory fees except room, board, and deposits on property.

B. Verbal opinion from Judge J. C. Davis, Assistant Attorney General — students listed below are exempted from all mandatory fees except room, board, and deposits on property.

1. Veterans and veteran dependents no longer eligible under federal Veteran Administration programs
2. High school graduates of State homes
3. Individuals eligible under "low income family" exemption

C. Opinion No. H-37 — Veterans and veteran dependents no longer eligible under federal Veteran Administration programs are exempt from the payment of fees and charges created by the pledging of student fees to secure the payment of improvement bonds.

III. Board of Director's provisions — in addition to statute and Attorney General opinion's provisions

A. Student services fee exempted for

1. Full-time staff
2. Students registered in absentia

B. Building use fee exempted for

1. Full-time staff
2. Students registered in absentia
3. Extension students

All required tuition, fees, and deposits are due at the time of registration. A student is not registered until he has turned in his registration material. Payment may be made in cash, by cashiers check, or by money order payable to Prairie View A&M University. These costs are subject to change without notice as necessitated by the University or legislative action.

Tuition, shown in the table below is based upon the number of hours for which the student registers.

Students who are not Texas residents will be required to pay the tuition shown in the columns headed "Tuition for non-residents." It is the student's responsibility to register under the proper resident or non-resident classification. The student may refer to the General Information Catalogue concerning his resident or non-resident status.

#### EXPENSES AND FEES FOR 1980-81

(These Fees are subject to change without notice)

	Drew and Holley	Banks and Fuller	All other Dormitories
Tuition (Non-resident pay \$40.00 per sem. hr) . . . . .	\$ 68.00*	\$ 68.00*	\$ 68.00*
Student Service Fee (Req.) . . . . .	60.00	60.00	60.00
**Building Use Fee . . . . .	97.75	97.75	97.75
Library Building Use Fee . . . . .	4.00	4.00	4.00
Room Rent 1st Semester . . . . .	430.00	375.00	375.00
Board & Laundry (Fee Through December) . . . . .			
Tax included \$26.75 . . . . .	621.75	621.75	621.75
I. D. Card . . . . .	4.00	4.00	4.00
Room Deposit for Damage and Breakage (Req. of Students who do not have \$25.00 on deposit) . . . . .	25.00		
Student Property Deposit (Req. of Students who do not have \$10.00 on Deposit) . . . . .	10.00		
<b>TOTAL FEES</b>			
Former Students . . . . .	1,285.50	1,230.50	1,230.50
New Students . . . . .	1,320.50		

\*Based upon a resident student taking 17 semester hours. Residents pay \$4.00 per semester hour, minimum of \$50.00.

\*\*Based upon a student taking 17 semester hours at \$5.75 per credit hour.

Payments of student accounts should be made by **cashier's check or money order** payable to the Prairie View A&M University of Texas and should be sent directly to the student. All checks, money orders and drafts are accepted subject to final payment. Change due on such items, usually not exceeding \$20.00, will be given to the student unless otherwise instructed.

## GENERAL INFORMATION

### PERSONAL CHECKS ARE NOT ACCEPTABLE

Maintenance fees are due and payable on the first day of each month. A delinquent fee of \$1.00 plus tax, usually four cents (.04), is assessed each student whose obligations to the University are not completely settled before the close of business on the tenth of the month, and he will be required to withdraw if settlement is not made by the fifteenth of the month.

### STUDENT FEES

The following student fees are hereby approved (effective September 1, 1980) to remain in effect until changed by order of the Board of Regents, and all fees in conflict herewith are hereby cancelled.

### TUITION AND OTHER FEES

#### Regular Session

Resident Students ..... \$ 4.00  
per semester hour with a minimum of \$50.00.  
For registration in absentia (but for no courses) \$15.00 per semester.

Non-Resident Students ..... \$40.00  
per semester hour.  
Penalty for failure to pay the proper fee at the beginning of each semester shall be \$5.00.  
For registration in absentia (but for no courses) \$17.50 per semester.

#### Summer Session

Resident Students ..... \$ 4.00  
per term hour with a minimum of \$25.00 per term.  
For registration in absentia (but for no courses) \$15.00 per term.

Non-Resident Students ..... \$40.00  
per term hour.  
For registration in absentia (but for no courses) \$17.50 per term.

Audit Fee ..... \$10.00

#### Library Building Use Fee

Library Building Use Fee Per Semester ..... \$ 4.00  
Library Building Use Fee Per Term ..... \$ 2.00

#### Building Use Fee

Building Use Fee Per Semester Hour ..... \$ 5.75

#### Late Registration

Former students both resident and non-resident who in either semester or term do not register on the days set apart for that purpose, shall pay an additional tuition fee of \$1.00 per day each day of late registration, with a maximum of \$5.00.

#### Degree, Certificates, Etc.

University Diploma Fee ..... \$ 5.00  
Graduate School Diploma and Graduation Fee ..... \$10.00  
Transcript Fee (per copy after first copy) ..... \$ 2.00  
Trade Certificate Fee ..... \$ 3.00  
Entrance Examination Fee for students from non-accredited  
high schools ..... \$ .50  
Deficiency Examination Fee per course ..... \$ 1.00

Student Nurses should expect expenses involving the following,  
and in addition to the cost of uniforms.

State Board of Examination  
Picture for State Board  
Photostat Copy for Records

#### Extension Courses

Extension Courses Fee, \$10.00 per semester hour.

**Laboratory Fees**

Some courses require a laboratory fee. Laboratory courses and the fee for each are listed in the catalog after each course description and in the class schedule. Payment is required before registration is completed.

**Student Property Deposit** ..... \$ 10.00

This fee is refundable **not earlier** than ten days after graduation or withdrawal, and after certification by the Registrar. It is for possible losses, damages, and breakage during the enrollment of the student.

**Room Deposit for Damage and Breakage**

A deposit of \$25.00 will be required to reserve a resident room. The \$25.00 will be retained against damage or breakage. It will be refunded upon request within six months after graduation or permanent withdrawal from school if there are no charges against the student. Returning students will not be required to increase the deposit they have previously made. Request for refund of this fee should be made at the Registrar's Office.

**Student Service Fee (Required)**

The services covered by this fee are subscription to **The Panther** (student publication), admission to campus athletic contests, debating contests, dramatics, general student activities, provision of orchestra music for approved entertainment, student union maintenance fee and treatment at the University Hospital except surgery, special drugs and certain X-rays.

Student Service Fee Per Semester Hour (Maximum \$60.00)..... \$ 5.00  
 Student Service Fee Per Term Hour (Maximum \$30.00) ..... \$ 5.00

**Music Fees**

Piano or voice (2 lessons per week) per semester ..... \$ 12.00  
 Organ ..... \$ 5.00  
 Other instruments, same as piano.

**Maintenance Fee****Regular Session**

Room Rent Per Semester:  
 Holley and Drew ..... \$383.00  
 Fuller and Banks ..... 329.00  
 All Other Dormitories ..... 300.00

**Board and Laundry Per Month**

(Board \$133.75, Laundry \$15.00 and Tax \$6.69) ..... 155.44  
 Laundry Per Semester ..... 60.00  
 Graduate Students, (Roomers), pay for Laundry at the time of payment  
 of Room Rent per semester.

**Summer Session**

Holley and Drew — Room Rent, Board, Laundry and State Tax  
 (Room Rent, \$182.00; Board, \$223.00; Laundry, \$23.00; Tax \$11.15) .... \$439.15  
 Fuller and Banks — Room Rent, Board, Laundry, and State Tax  
 (Room Rent, \$152.00; Board, \$223.00; Laundry \$23.00; Tax, \$11.15) .... \$409.15  
 All other Dormitories — Room Rent, Board, Laundry, and Tax  
 (Room Rent, \$152.00; Board, \$223.00; Laundry, \$23.00; Tax, \$11.15) .... \$409.15

**Graduate Students Only — Room Rent for Summer Session**

Holley and Drew:  
 Per Term of Six Weeks ..... \$182.00  
 Per Term of Three Weeks ..... 91.00  
 Per Term of One Week ..... 30.31

## GENERAL INFORMATION

### Fuller and Banks:

Per Term of Six Weeks.....	152.00
Per Term of Three Weeks.....	76.00
Per Term of One Week.....	25.34

### All Other Dormitories:

Per Term of Six Weeks.....	152.00
Per Term of Three Weeks.....	76.00
Per Term of One Week.....	25.34

Room Key Deposit, (full amount returnable if receipt is presented at the Cashier's window).....	1.00
Automobile Registration Fee, Per Term.....	4.00

## ROOM RESERVATION

A room reservation may be made by following any one of the three following procedures:

1. Payment of entrance fees plus board and laundry for the semester.
2. Payment of entrance fees.
3. Payment of the \$25.00 Residence Hall Damage and Breakage Fee, accompanied by the student's official notice from the college that he has been approved for a loan or a scholarship in the amount sufficient for paying the balance of the entrance fees. **IN THE EVENT THE LOAN OR SCHOLARSHIP DOES NOT COVER THE BALANCE OF THE ENTRANCE FEES, THE STUDENT IS REQUIRED TO REMIT THE DIFFERENCE.**

## POLICIES REGARDING REFUNDS

It is assumed that the student or the prospective student understands the fee system, and that he has, at the time that fees are paid, made a decision to enroll at the university. Fees are not refundable except under the following conditions:

### 1. REQUEST FOR REFUND PRIOR TO THE REGISTRATION PERIOD

- A. If a request for refund is made prior to two weeks before the first scheduled day for registration all fees are refundable.
- B. If the request for refund is made within two weeks of registration:
  - 1) The room rent fee is subject to refund if the residence halls are filled to capacity at the close of the registration period.
  - 2) Other fees are refundable.

**Tuition, Student Services Fee, Building Use Fee, Student Center Complex Fee, Health Center Fee, P. E. Service Fee, Laboratory Fee and Residence Hall Rent**

### 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

### Six-Week Summer Term

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

### C. Student Property Deposit

The Student Property Deposit, less charges assessed for damage to property, is

refundable. Student Property Deposits are subject to forfeit and will become permanently a part of the Student Property Deposit Scholarship Fund if not called for within 4 years of the student's last attendance.

#### D. Board and Laundry

No deductions will be made from charges for board and laundry in case of entrance within ten days after the opening of a semester, nor will a refund be made in case of withdrawal during the last ten days of a semester or the last ten days for which payment is made.

Except for aforesaid charges for board and laundry will be refunded pro rata in case of withdrawal during a semester.

#### E. Housing

All rooms in university housing are reserved and rented for a full semester or term. There will be no refund of room rent. Students who fail to honor their reservations or who leave school at any time during the semester or term forfeit all or any unused portion of the room rent.

#### F. Residence Hall Damage and Breakage Fee

Upon permanent withdrawal from the university one is entitled to a refund of that part of the residence hall damage and breakage fee not needed to cover an assessed damage or breakage claim. It generally takes not less than 90 days to process the refund.

#### G. Building Use Fee

After the student has completed registration no part of the Building Use Fee is refundable.

#### H. I.D. Picture Fee

After the I.D. picture is taken, there will be no refund of the I.D. Picture Fee.

#### I. Laboratory Fees

- (1) Any student withdrawing from a laboratory course during the first week of class work during any fall or spring semester shall be entitled to a 100% refund.
- (2) Any student withdrawing from a laboratory course during the first two days of a summer term shall be entitled to a 100% refund.
- (3) Any student withdrawing from a laboratory course after the days specified in (1) and (2) above, shall be entitled to a refund.

#### J. Students Called to Active Duty Involuntarily

Any student involuntarily called to active duty with the Armed Services within the first four weeks of classwork of a regular semester, or within the first week of a summer term, shall be entitled to a 100% refund of the tuition fee, laboratory fees, student service fee, student activity fee, building use fees, and parking fees. Any student involuntarily called to active duty with the Armed Services after the first four weeks of classwork of a regular semester or after the first week of classwork of a summer term shall be entitled to a refund, on a daily prorated basis, of tuition and laboratory fees. Room, board, and laundry fees shall be refunded on a daily prorated basis. No refunds will be made until 10 days have elapsed from the time the fees were paid.

#### K. Student Service Fee

A student may claim a refund of the Student Service Fee in accordance with the following schedule:

- (1) Any student withdrawing during the first week of classwork during any fall or spring semester shall be entitled to a 100% refund.
- (2) Any student withdrawing during the first two days of a summer term shall be entitled to a 100% refund.
- (3) Students withdrawing after the dates specified in (1) and (2) above shall not be entitled to a refund.

## GENERAL INFORMATION

### PROCEDURE FOR WITHDRAWING

1. A student must secure a withdrawal card from the Dean of Women or Dean of Men.
2. The withdrawal card must be taken to the departments requested by the Dean of Women or Dean of Men.
3. The student must have the Registrar fill our forms requesting a refund.
4. A student withdrawing from the University on a loan will not personally receive a refund. The refund will be sent as a payment toward his or her loan. The student should receive notification from the Financial Aids Director as to the amount remitted in his behalf.

### INTERPRETATION OF THE FEE STRUCTURE AT PRAIRIE VIEW A&M UNIVERSITY

#### I. Tuition: The payment for instruction

The student enrolls in a certain number of credit hours for instruction per Semester/Summer Term.

Prairie View A&M University collects tuition from the student at the following rates:

- A. Tuition for the resident student is \$4.00 per semester credit hour; the total of such charge will be no less than \$50.00 per semester, or \$25.00 per summer term.  
EXAMPLE: 17 semester credit hours at \$4.00 each = \$68.00
- B. Tuition for the non-resident student who is a citizen of the United States is \$40.00 per semester credit hour, and the total of such charge will be no less than \$40.00 per semester.  
EXAMPLE: 17 semester credit hours at \$40.00 each = \$680.00
- C. Tuition for the non-resident student who is a citizen of a country other than the United States is \$40.00 per semester credit hour, effective June, 1975.  
EXAMPLE: 17 semester credit hours at \$40.00 each = \$680.00
- D. The number of credit hours per semester in which the student is enrolled is determined by the student and an advisor.

#### II. Student Service Fee (Determined by the number of hours enrolled).

- A. Student Service Consists of various activities on campus in which the student is involved:
  1. Athletic Events
  2. Limited Medical Services
  3. University Sponsored Activities
- B. For all semester hours over eleven, the maximum fee charged is \$60.00.
- C. For all semester hours under twelve, the fee is determined by the number of hours enrolled times \$5.00.

#### III. Building Use Fee

- A. The Board of Regents has levied special compulsory building use fees to be charged to each student in order to retire revenue bonds issued for construction of additional facilities.
- B. This fee is based on the number of semester credit hours times \$5.75.  
EXAMPLE: 17 semester credit hours at \$5.75 each = \$97.75

#### IV. Library Building Use Fee

A fee of \$4.00 is charged for the use of the Library.

#### V. Room Rent

(Determined by the residence hall in which the student will reside)

MALE		FEMALE	
Holley Hall	\$430.00	Drew Hall	\$430.00
Fuller Hall	\$375.00	Banks Hall	\$375.00
Alexander Hall	\$375.00	Collins Hall	\$375.00

**VI. Board and Laundry**

Presently the University is charging a fee as indicated below:

Board .....	\$535.00
Laundry .....	60.00
State Sales Tax .....	26.75

TOTAL    \$621.75

**VII. I.D. Card**

A fee of \$4.00 is charged for making and issuing of identification. This I.D. Card is used to enter athletic events, etc.

**VIII. Student Room Damage and Breakage Deposit**

This deposit is paid by every student who enrolls in the University and resides in a residence hall. This fee is \$25.00 and is refundable at the end of your college career, or, upon moving out of the residence hall.

**IX. Student Property Deposit**

This deposit is paid by every student who enrolls in the University. This fee is \$10.00 and is refundable at the end of your college career.

**X. Special Fees**

The following special fees assessed to the University students under the special conditions are:

**A. Late Registration**

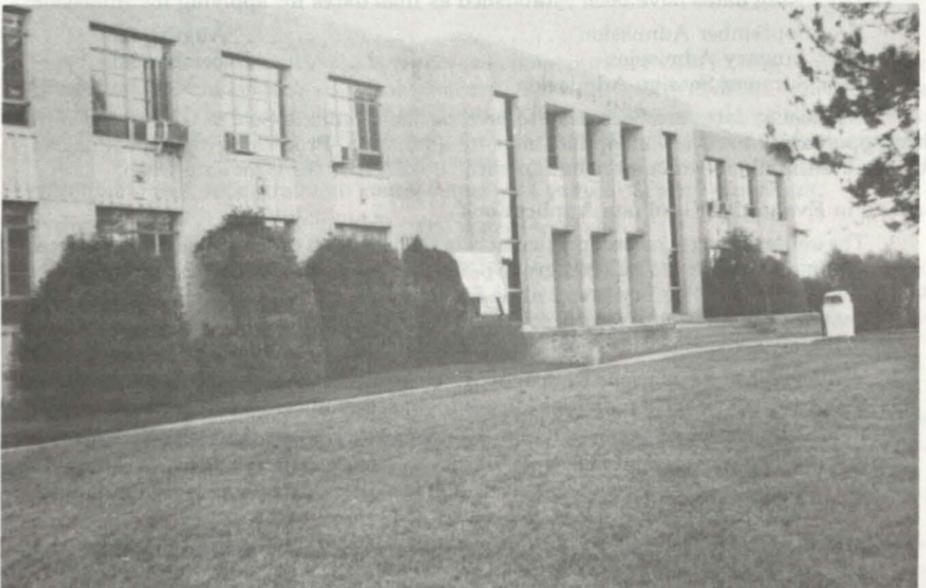
The student who registers late will be charged a fee of \$1.00 for the first day plus \$1.00 each additional day with a maximum of \$5.00.

**B. Automobile Registration**

Each student who owns an automobile on campus must have the vehicle registered. The fee is \$5.00 per six weeks, and \$10.00 for both summer terms, or \$10.00 per regular semester.

**C. Laboratory Fees**

A lab fee is charged for the use of the laboratory in such classes as Chemistry and Biology.



# GRADUATE SCHOOL

## PRAIRIE VIEW A&M UNIVERSITY — 1981-82

WAYMON WEBSTER, Dean, Graduate School

The Graduate School has general supervision of all graduate studies carried out in the specialized departments, divisions, schools, and colleges of the university and in this respect serves as an administrative unit concerned with all aspects of graduate study. Procedures, regulations and policies which provide direction for graduate programs are developed by the Graduate Council administered by the Dean of the Graduate School. This Council, consisting of ex-officio, elected, and appointed members, is responsible for determining the basic policies of the Graduate School.

Prairie View A&M University has a distinct character identified with its graduate program and subsequently reflects a kind of philosophy and objectives to be achieved. This character peculiarly related to the University has been a distinguishing feature and will continue to serve as the underlying source of stimulation for continuous improvement.

### ACCREDITATION

Prairie View A&M University is accredited by the Texas Education Agency, the Southern Association of College and Schools, and the National Council for Accreditation of Teacher Education.

### ADMISSION TO THE GRADUATE SCHOOL

Applicants for admission to the Graduate School should submit a regular application blank properly executed at least thirty days prior to the opening of the season in which they wish to register. This is to be accompanied by an official transcript of undergraduate work completed.

1. Arrange for two (2) official transcripts of all previous college work inclusive of Bachelor's degree to be sent to the office of the Graduate Dean within appropriate time to be considered along with submitted application form.
2. A previously earned Bachelor's degree from an accredited College or University is a prerequisite for admission to the Graduate School.

### Final Dates for Admission

The following dates have been established as final dates for applying for admission:

For September Admission . . . . .	August 1st
For January Admission . . . . .	December 1st
For Summer Session Admission . . . . .	May 1st

These closing dates are necessary to provide the Graduate School Office with sufficient opportunity to review all applications for admission. Processing of application cannot begin until all credentials are on file with the office of the Graduate Dean.

### Criteria in Evaluating Graduate Applications

1. The undergraduate record, particularly in fields related to the applicant's projected graduate study must reflect a grade point average of 2.75 or better. There must be evidence of satisfactory preparation for graduate study in the fields chosen. The general undergraduate record, educational experiences and one's record in relation to major field of specialization will be considered in determining admission status.
2. Written recommendations from known faculty members or persons knowledgeable about the applicant's potential for graduate study must be submitted.
3. Levels of performance on the Graduate Record Examination (GRE) for Master of Arts and Master of Science Degree candidates; levels of performance on the Graduate Management Admission Test (GMAT) for Master of Business Administration (MBA) Degree must be acceptable.
4. Evidences of acceptable character and personality are considered in evaluating applications.

### Foreign Student Requirements

All students whose native language is not English must take the "Test of English as a Foreign Language" and submit scores to the Graduate School as evidence of their ability to utilize English as a language of instruction. The TOEFL test score is the only evidence which will be accepted in this regard. An application for admission to the Graduate School will not be considered prior to the receipt of the TOEFL score. Application to take the test should be addressed to TOEFL, Educational Testing Service, Princeton, New Jersey, at least nine months in advance of the intended date of commencing graduate work. The test is administered four times per year in centers throughout the world.

### Types of Admission

**Degree Applicant:** A student who wishes to pursue a program leading to the Master's degree.

**Certificate Applicant:** A student who wishes to pursue a program of study leading to the professional certificate. This applicant must meet the same criteria as the Degree Applicant for admission to the Graduate School.

**Special Student:** "Special Students" may be of four categories. They are: (1) students who do not wish to become applicants or candidates for a Master's degree, (2) those students who do not qualify for admission as "Degree Applicants," (3) students who are removed from "Degree Applicant" status of low quality of performance, and (4) a student whose application forms were not completely processed within the 30 days prior to the opening of the session for which he wishes to register. This student may enroll for one semester, with the stipulation that he signs a form verifying (a) his awareness of his status and (b) his understanding that upon the completion of the processing of his folder, he will comply with requirements specific to his classification. Work taken by this special student is recorded by the Registrar's Office and the Graduate Office, but is not usable on a degree program until and unless the student secures admission to the Graduate School as a degree student. A special student in this category who secures admission will be converted to Degree Student Status. A special student who is denied admission will be converted to a non-degree status.

Special students, in the first category, may become Degree Applicants when they can comply with all admission requirements.

Graduate credit toward a degree will not be allowed normally for any course unless the student has been granted admission to the Graduate School. In case of unusual circumstances a maximum of nine (9) hours taken prior to admission to the Graduate School may be accepted in the degree program.

### Graduate Work by Seniors

A senior in this university who lacks six semester hours or less of having completed the requirements for the undergraduate degree may, with the approval of his undergraduate dean, the Dean of the University, and the Dean of the Graduate School, register for graduate courses, not to exceed six semester hours, while completing his undergraduate requirements. If graduate credit is desired for any part of the work carried, the combined load of the graduate and undergraduate courses must not exceed 12 semester hours.

### ADVISEMENT AND ACADEMIC COUNSELING

Each student is assigned a departmental major advisor on his matriculation at the University. The student should consult with the advisor at least once a semester and receive approval of courses to be taken for the degree. Consultation on all academic, vocational, social and emotional concerns should begin with the major advisor.

### DEGREE PLAN

The student should file a Degree Plan within his first semester of matriculation in the University. Degree Plan forms may be obtained from Major Advisor. The Major Advisor, Departmental Head and Graduate Dean review and approve the Degree Plan.

### INSTRUCTIONAL PROGRAMS

The Graduate School offers graduate programs designed to educate scholars and practitioners whose professional roles will effect the improvement of practices in their professions.

## GRADUATE SCHOOL

The Graduate School offers programs leading to the Master of Arts degree, Master of Science degree, Master of Business Administration degree, Master of Education degree, and Professional Certification.

### MASTER'S DEGREE

#### General Requirements

The master's degree requires a minimum of thirty semester hours beyond the bachelor's degree. Generally, at least twenty semester hours of graduate work in the major field and ten semester hours in the minor field will be required.

A minimum of thirty semester hours, exclusive of thesis, with an average grade of B or better, in courses approved for graduate credit, is required for the degrees of Master of Arts and Master of Science. Thirty-six semester hours of course work are required for the degree of Master of Education.

## GRADUATE PROGRAMS

The Graduate School offers graduate programs leading to the Master's degree and professional Certificate in the following areas:

### Master's Degree Programs

Fields of Study	Degree offered
College of Agriculture	
Agricultural Economics	MS
Agricultural Education	MS
Agricultural Extension Education	MS
Soils	MS
College of Arts and Sciences	
Department of Economics & Geography	
Geography	MA
English	MA
History	MA
Mathematics	MS
Music Education	MA
Applied Music	MA
Biology	MS
Environmental Toxicology	MS
Chemistry	MS
Department of Sociology	
Sociology	MA
College of Business	
Business Administration (Undif.)	MBA
Economics	MA
Accounting	MBA
Business Administration	MBA
Business Education	MS, MEd
Finance	MBA
Management	MBA
Marketing	MBA
College of Education	
Educational Administration	MS, MEd
Educational Technology	MS

Elementary Education	MS, MEd
Guidance	MS, MEd
Secondary Education	MS, MEd
Special Education	MS, MEd
Supervision of Instruction	MS, MEd
Health, Physical Education and Recreation	MS
College of Home Economics	
Home Economic Education	MS, MEd
General Home Economics	MS
College of Industrial Education and Technology	
Industrial Education	MS, MEd
<b>Certification Programs</b>	
Specialization Area	
Elementary Education	
Secondary:	
Business Education	Social Studies
Chemistry	Education Diagnostician
Physical Education	Reading Specialist
History	Mathematics Education
Industrial Arts	Biology
Special Services	
Counselor	
Supervisor	
Administration	
Vocational	<b>Endorsements</b>
Agricultural Education	Kindergarten
Home Economics	Language Learning Disabilities
Vocational Counselor	Special Education
Vocational Supervisor	(Mentally Retarded)

### SUMMARY OF REQUIREMENTS FOR THE MASTER'S DEGREE

Procedure	Under Direction of	To Be Completed
Application for Admission to Graduate Study. Student submits application form, transcripts, and entrance test scores to	Graduate School	Thirty days prior to first registration.
Appointment of Advisor by	Department Chairmen	Upon acceptance into major program.
Registration with approval of	Advisor	Prior to each registration.
Degree Plan form requested by student from	Graduate School or advisor	During his first semester of enrollment
Candidacy Forms requested by student from	Graduate School or advisor	Upon the completion of 12 semester hours of work.
Thesis, creative work, or Field Conference	Thesis Advisor	After admittance to candidacy
Comprehensive examination registration	Department Head	After completing 15 semester hours
Application for Graduation. Student submits application forms to the	Graduate School	Beginning of semester in which you plan to graduate.
Submit Final Copies of Thesis	Graduate School	No later than two weeks before graduation
Commencement exercises information will be distributed to applicants.	Registrar's Office	For participation in spring and summer graduation exercises

## GRADUATE SCHOOL

### Master of Arts Degree

The purposes of the Master of Arts degree are: to develop the student's ability for continued self-directed study in this field of specialization, to improve the student's professional competence, and to enable the student to broaden his cultural background, to develop his personal and social responsibility and to prepare for community leadership.

### Master of Science Degree

The Graduate School offers the Master of Science degree in certain natural sciences and in curricula which stress improving occupational competency in business and industrial firms and in the public and social agencies of the community. These programs emphasize applied knowledge and professional skills. They are designed to develop in the student an extensive knowledge of his academic field, competence in research procedures, and a deeper understanding of human behavior. The programs seek to develop a student's ability to solve problems through combining findings of research with technical skills of occupations.

### Master of Business Administration Degree

The purpose of the program for the Master of Business Administration degree is to develop insights, analytical skills, and competences essential to a satisfactory performance as an executive in contemporary business.

### Master of Education

The Master of Education Degree is a specialized professional degree appropriate for those who plan careers in teaching or related careers. Prerequisites for this degree are eighteen semester hours of undergraduate education credits and two or more years of teaching experience. A written research report and/or special project of exceptional quality will be required of each student for this degree.

### Professional Certification Programs

Professional Certification programs are offered in the Graduate School for public school teachers, Counselors, Supervisors and Administrators. Upon satisfying the required competencies in the certification programs, the student earns the professional certificate in the area of specialization.

### Degree Program Requirements

The following requirements apply to each degree program:

#### 1. Course Requirements —

- a. A minimum of thirty (30) semester hours, exclusive of thesis, with an average grade of "B," or better, in courses approved for graduate credit, is required for the degrees of Master of Arts and Master of Science.
- b. A minimum of thirty-six (36) semester hours of course work is required for the degree of Master of Education and Master of Business Administration.
- c. Ordinarily, at least twenty (20) semester hours of graduate work in the major field and ten (10) semester hours in the minor field will be required.

#### 2. Transfer of Credit —

Credit obtained in a different but recognized institution, not exceeding six semester hours, may be transferred and credited to the Master's degree, provided that the work was of graduate character and provided that acceptance of the transferred credit does not reduce the minimum residence period of one academic year. Graduate credit for which the student received lower than a "B" grade cannot be transferred to this University. Transfer of advanced credit is not made unless requested by the student in a letter to the Dean of Graduate Study. Such a transfer of credits from another institution to apply in partial fulfillment of the requirements of the Master's degree must be approved by the Graduate Council. An "A" grade from another institution or earned in extension courses, may not be used to validate a grade of "C" earned in this College.

#### 3. Extension and Correspondence Courses —

A student who has satisfied requirement for admission to the Graduate School may

receive credit toward the Master's degree for extension courses, subject to the following conditions: (1) graduate credit will be given only for courses approved by the Graduate Council; (2) the courses fit in with the student's program of study; (3) graduate credit for extension courses shall not exceed six semester hours and shall not reduce the residence requirement for the degree; and (4) 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. 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 his undergraduate training.

4. Not more than a total of nine semester hours of extension and transferred credits combined may be counted toward the Master's degree.

5. Quality of Work —

A candidate must maintain at least a "B" average in all work taken in graduate study.

6. English Usage Requirement —

A student who is deficient in English usage but who is otherwise doing satisfactory work will be required to satisfy the Committee on English Usage with regard to his use of the English language, before he is allowed to graduate. Such deficiency might be determined by an English Usage examination or by reports of instructors of courses in which a student is registered.

7. Admission 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:

- a. Achieve a satisfactory score on the Graduate Record Examination or GMAT.
- b. 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 should provide a listing of courses completed as well as those to be completed. This instrument becomes the basic guide for the student and advisor to be followed through to completion of the degree program.

This candidacy form is procurable 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.

8. Foreign Language Option —

At the option of the head of the department in which the major work is done, a reading and working knowledge of French, German or Spanish may be required to complete the requirements for the Master of Arts or Master of Science degree.

9. Thesis —

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 faculty of the Graduate School in the department in which the individual is working. The thesis must have the approval of each member of the Student's Reading Committee. This work must be acceptable with respect to both scholarship and literary quality. A candidate for an advanced degree must have his thesis subject approved by his Chairman at least six months before the date of his intended graduation in order that it may be examined by each member of the Advisory Committee of the student.

Two copies of the thesis must be filed in the Graduate Office.

10. Seminar Paper —

All candidates for the degree of Master of Education are required to enroll in a Seminar in connection with which a seminar paper will be written according to a prepared form approved in writing by the instructor in charge of the seminar. This paper shall deal with a topic in the student's major field of concentration.

## GRADUATE SCHOOL

### 11. Application for the Degree —

Any candidate expecting to graduate at the end of a regular long session is required to file application for the degree expected by October 15th on a form available in the Registrar's Office. If graduation is expected at the end of the summer session the application for the degree should be made by March 15th. The application should be directed to the Registrar with prior approval of major advisor and Dean of Graduate School.

### 12. Final Examination —

After the thesis has been completed and filed with the Graduate Office, the candidate is required to pass a general comprehensive examination which shall be a test of the candidate's knowledge of the study which he has mainly pursued. This general examination is conducted by the Student's Advisory Committee of which the representative of the major field shall act as Chairman, and at least two other examiners to be appointed by the Dean of the Graduate School after consultation with the Advisory Committee. Any member of the Graduate Faculty may attend the examination as a visitor.

A candidate who fails in his general examination must register in the Graduate School and carry work for an additional semester before an opportunity will be given for a second examination, unless special permission is granted by the Graduate Council for an earlier examination at the request of the department concerned.

### 13. Recommendation for the Degree —

Upon completion of all requirements for the Master's degree, candidates are certified for graduation by the Chairman of the Graduate Council. Degrees are publicly conferred at the close of the regular and the summer sessions.

### Time Limit On Work for Master's Degree

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

### 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 receive an average grade of "B". A graduate student is expected to maintain a "B" average in all his work.

The work of a graduate student performed in connection with this thesis problem is reported as "satisfactory" or "unsatisfactory."

A graduate student may receive a grade of "I" — incomplete, in a course with the privilege of finishing the work at a later date. "Incomplete" work must be completed within twelve months after the close of the term in which the grade was earned, or no credit will be allowed for the course.

Graduate students registered in courses that are open to advanced undergraduates must do a certain amount of work in addition to that required of undergraduates. The nature of this additional work may be the reading of additional books on the subject and presenting a review of same, the making of reports, or such other work as the teacher in charge of the course may deem wise.

### Comprehensive Examination

Candidates for the Master of Education degree are required to pass a comprehensive examination covering the professional field of education and the general field of his major

study. The examination is designed to test the student's ability to apply principles, to analyze, to synthesize, and to evaluate. It is thus recommended that the student remain current with the literature both in Education and the field of his major interest. Candidates for the degree are expected to have developed should scholastic skills and the potentiality for research.

1. The comprehensive examination will be written, but where very unusual circumstances require it, the examination may be oral — if recommended by the major adviser and/or departmental head, appropriate School or College Dean, and the Dean of the Graduate School.
2. Grades for this examination must be filed in the Departmental Office and the Office of the Graduate School.
3. In the event that a student fails to pass the first examination, the advisor and departmental head may recommend that the candidate be permitted to prepare himself for re-examination. In this event, the student and his advisor will plan a program of study, including independent study, further course work, or both. His semester hour requirements may thus be extended. Re-examination cannot take place until a minimum of one semester has elapsed.
4. A second failure by a candidate would require further study with reexamination permitted only after two semesters have elapsed since the semester in which the examination was taken.

#### Student Petitions and Appeals

A student who has problems arising from evaluation, advancement to candidacy, degree requirements, or general regulations should discuss them first with a graduate major adviser. If a student wishes to review a problem or to appeal a decision, he should first consult with the departmental chairman, and the school dean, in that order.

#### Course Load

1. Maximum Load
  - a. During a regular session, a graduate student may not enroll for more than 15 hours.
  - b. During a six-weeks summer term, a student may not enroll for more than six hours, except that one course is a four-hour course, in which case he may enroll for seven hours. The total hours for the summer session may not exceed twelve hours.
  - c. A student may not enroll for more than three hours during a three-weeks summer term.
  - d. A student enrolled in the three-weeks term may not enroll for more than one three-hour course in the six-weeks terms being conducted concurrently.
2. Graduate Work of Teachers Employed in Texas Public Schools
 

The student load of teachers employed full-time may not exceed six semester hours or equivalent per semester.

#### Graduate Assistantships Available

Graduate teaching and research assistantships are available to students with exceptional academic records and promise for successful graduate study. Interested applicants should submit their applications and credentials to the office of the Dean, Graduate School. Application forms and dates to be submitted are available upon request through the Graduate School.

#### Student Responsibility

It is the responsibility of the student to inform himself and to carry out all regulations and procedures required by the program he is pursuing. In no case will a rule be waived or an exception granted because a student pleads ignorance of the rule or asserts that he was not informed of it by his adviser or other authority.

# COLLEGE OF AGRICULTURE

C. L. Strickland, Sr., Acting Dean

The College of Agriculture offers the Master of Science degree in Agriculture with a major in four different specialized areas. The major areas are Soils, Agricultural Education, Agricultural Economics and Cooperative Extension Education. The Master of Education degree (M.Ed.) is also offered in Agricultural Education and Cooperative Extension Education.

The master's curriculum in agriculture provides excellent preparation for specialized careers. The variety of course offerings, the research for the graduate thesis, and the variety of occupational experiences provided the graduate student substantially enrich the Master's degree program in Agriculture.

## AGRICULTURAL ECONOMICS

Alfred L. Parks, Head

1981-82 Faculty

Bobby Mixon, Herman Brann

To fulfill the requirements of the M.S. degree program in this subject matter field, the student must satisfactorily complete at least 18 semester credit hours of course-work in agricultural economics and satisfy all other requirements prescribed including supporting courses and a thesis. Prerequisite academic preparation is prescribed in the Department graduate program handbook.

## DESCRIPTION OF COURSES

**513. 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 earnings; capital market organization and institutions; supply and demand of financial resources; role of debt in firm growth.

**523. Marketing of Farm Products. (3-0) Credit 3.** Theoretical foundations of marketing in 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; market contracting, orders and power.

**533. Research Methods. (3-0) Credit 3.** Philosophy, methods and techniques of scientific research in the discovery of new knowledge especially in economic development and productivity of agriculture; role of theory and assumptions; definition of research problem; research project proposals including objectives and procedures; analytical methods and techniques in research; evaluation of research studies and development of thesis prospectus or equivalent.

**613. Economic Development and Agriculture. (3-0) Credit 3.** Attributes and role of agriculture in national economic development; factors affecting agricultural productivity in underdeveloped areas; roles of research, teaching and extension in agricultural development; firm management and institutional administration in economic development.

**723. Cooperative Marketing. (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 those in the agricultural sector and those in the general economy; kinds of price changes; forecasting factors and conditions that affect agricultural prices; futures trading; parity prices; administered prices.

**733. Advanced Farm Management. (2-2) Credit 3.** Theories of the firm and 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; managerial decision-making. Laboratory application of principles of economics to the production process, including analysis of costs, returns, and productivity.

**743. Land Tenure and Problems. (2-2) Credit 3.** Nature and economic dimensions of private and public control and use of natural resources, including land; stock and flow resource concepts; time and space as they affect resources utilization and benefits. Laboratory studies of field problems in resources development and use.

**763. Agricultural Policy. (3-0) Credit 3.** Theoretical foundations of policy-making economic value of public policies and programs to the agricultural industry; interrelation of the social, political and economic system, and agriculture; policy development and implementation; value of agricultural policy to society.

**793. Special Topics. (3-0) Credit 3.** Special topics dealing with economic problems of agriculture in relation to the economy; contemporary domestic and international issues. Formal presentations and discussions. Development and test of needed new courses.

**800. Research (Thesis). Credit 6.** Initiation and completion of a research project of approved originality and scope for an advanced degree. The thesis report is to be of format, style and quality consistent with the standards of the agricultural economics profession. Prerequisite: Approval of Department Head.

## Agricultural Education and Cooperative Extension Education

C. L. Strickland, Sr., Head

1981-82 Faculty

Emerson Sanders, Hoover Carden

The candidate for the Master of Agriculture degree with a major in Agricultural Education or a major in Extension Education will select courses from the description of courses listed below. To fulfill the requirements for the Master of Agriculture with a major in Education or Extension, the student must complete at least 18 semester hours of course work from the courses listed below and satisfy all other requirements prescribed, including supporting courses and a thesis. A total of 30 semester hours is needed for the Master of Agriculture degree. The candidate for the Master of Education degree with a major in Agricultural Education must complete 36 hours of course work and pass a comprehensive examination.

### DESCRIPTION OF COURSES

**503. Seminar. (Agricultural Education 503 Seminar) (1-0) or (2-0) Credit 3.** Group study of current legislature and research development in agricultural education and related areas of education.

**513. Methods and Principles of Adult Education. (Agricultural Education Adult Education) (3-0) Credit 3.** An analysis of the problems related to adult education in vocational education and to the development of objectives and procedures in the organization and conduct of such instruction. Identification of the basic principles that motivate adults to learn.

**523. Supervised Practice Program Building. (AgEd 523 Prog Bldg) (3-0) Credit 3.** Teaching in Vocational Agriculture. Permission of instructor is required. Based upon researches in project accounting and analysis.

**533. Occupational Experience Programs. (AgEd 533 Occupational Experience) (3-0) Credit 3.** Study of the nature and scope of occupational experience programs. Cooperative part-time training and pre-employment laboratory experience programs will be emphasized.

**543. Advanced Methods. (AgEd 543 Advanced Methods) (3-0) Credit 3.** Advanced course in teaching. Professional public school or extension experience or approval of Department Head.

**553. Youth Leadership Activities. (AgEd 553 Youth Activities) (3-0) Credit 3.** Methods of development and conducting youth programs, and organizations; objectives, program content, and evaluation.

563. **Workshop in Agricultural Education.** (AgEd 563 Workshop) (3-0) Credit 3. Study of selected problems in teacher and/or extension education. Consultants utilized in special-ized areas.

613. **Philosophy of Agricultural Education.** (AgEd 613 Philosophy) (3-0) Credit 3. Study of Philosophy and evaluation of education in agriculture; socioeconomic influence for the establishment of agricultural education.

623. **Public Relations and Agricultural Education.** (AgEd 623 Public Relations) (3-0) Credit 3. Methods and practices of acquainting the public with the scope and purposes of vocational education through print, radio, visual aids, and full use of written and spoken words.

633. **Guidance and Counseling.** (AgEd 633 Guidance and Counseling) (3-0) Credit 3. Study of educational, occupational, and vocational opportunities for rural youth; techniques of individual group counseling in guidance. Practicum in personality and occupational interest testing. Educational and occupational trends.

643. **History and Principles.** (AgEd 643 Principles) (3-0) Credit 3. The historical develop-ment of vocational education. The objectives of vocational education. Types of vocational programs, services and activities.

714. **Problems in Agricultural Education.** (AgEd 714 Problems) Credit 1 to 4. Studies related to classroom, laboratory, supervised farming, work experience, extension educa-tion, and adult and young farmer educational activities in agriculture. Directed individual study of selected problems.

723. **Technological Change.** (AgEd 723 Change) (3-0) Credit 3. A study of cultural change — a theoretical base for planned technological change. Emphasis will be given in methods of planning and implementing change, its effects and how it can be predicted.

## VOCATIONAL AGRICULTURAL EDUCATION

### Professional Certificate

#### SPECIALIZATION

12 or more hours:

Agricultural Education	503	Agricultural Education Seminar
	523	Supervised Practice Program Building
	553	Youth Leadership Activities
	563	Workshop in Agricultural Education
	613	Philosophy of Agricultural Education
	623	Public Relations and Agricultural Education
	633	Guidance and Counseling
	643	History and Principles
	723	Technological Change

#### RESOURCE AREA

12 or more hours:

Soil Science
Agricultural Economics
Education
Counseling
Administration and Supervision
(Multicultural, Required)

#### PROFESSIONAL DEVELOPMENT

6 or more hours:

Agricultural Education	513	Methods and Principles of Adult Education
	533	Occupational Experience Programs
	543	Advanced Methods

#### RESEARCH

6 or more hours:

Agricultural Education	714	Problems in Agricultural Education
Soil Science	803	Introduction to Biometrics
Education	843	Techniques in Educational Research

# Soil Science

1981-82 Faculty

T. S. Harris, E. Brams, A. Mangaroo

The Soil Science Department offers a Master of Science degree in Agriculture with a major in soil science. This program provides students with an excellent opportunity to develop and improve their research capabilities while becoming better trained in basic soil science. Requirements which must be met to obtain this degree are as follows:

1. A minimum of thirty (30) credit hours in the graduate curriculum and a thesis for which zero (0) credit hours are earned. A minimum of eighteen (18) of the required 30 credit hours should be earned by completing courses in soil science, including the core courses 523, 583, 593, 714, 753, 803, and 813.
2. All other requirements pertaining to graduate study must be met in accordance with the directives stipulated in the University's General Catalogue.

In conjunction with the department's research program, research equipment and facilities are maintained and utilized to increase the experience of graduate students and maximize their involvement in research activities.

## COURSE DESCRIPTIONS

**514. Soil Microbiology. (Agron. 514 Soil Micro) (3-2) Credit 4. I.** Soil Microorganisms and their effect on soil physical and chemical characteristics, nitrogen fixation, organic matter decomposition and denitrification. Prerequisite: 9 hours of soils and 6 hours of biology or consent of instructor.

**523. Plant Nutrition and Soil Fertility. (Agron 523 Pl Nutr and Soil Fert) (3-0) Credit 3. I.** A study of the most important elements for plant growth derived from the soil; their source and availability in the soil and their functions in plant metabolism. Emphasis will be placed on nitrogen, phosphorus, potassium, calcium sulphur, iron, zinc, aluminum and magnesium, including the cause and correction of copper, aluminum, and manganese toxicity in plants. Prerequisites: 9 hours of soil and 3 hours of plant physiology.

**593. Advanced Soil Management. (Agrn 593 Soil Mgmt) (2-2) Credit 3.** The application of the principles of soil management to the solution of practical farm problems.

**603. Soil Mineralogy. (Agro 603 Soil Mineralogy) (3-0) Credit 3. I.** A study of weathering processes and products in relation to soil formation and effects of mineralogical composition on soil properties and profile characteristics. Prerequisites: 9 hours of soil and 3 hours of physics or consent of instructor.

**614. Soil Physics. (Agro 614 Soil Physics) (3-2) Credit 4. I.** A study of the most important physical properties of soil such as structure, texture, aeration, soil water movement, and thermal relationships. Prerequisites: 2 semesters of physics, 9 hours of soils or consent of instructor.

**623. Tropical Soils. (Agro 623 Tropical Soils) (3-0) Credit 3. II.** The physical and chemical properties of tropical soils; their fertility status and 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.

**703. Soil Fertility Ecology. (Agro 703 Savanna-Prairie Ecology) (3-0) Credit 3. II.** A consideration of management practices of Savanna-Prairie soils in relation to yields of pasture and row crops and 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.

**713. Soils and the Quality of the Environment. (Agro 723 Soils and Environ) (3-0) Credit 3. II.** The study of the pollution of soils, soil erosion and pollution, agricultural derived chemicals as pollutants, soil as an aid to waste disposal, and other pollutants related to agriculture.

714. **Physical Chemistry of Soils. (Agro 714 Soil Phys Chem) (3-2) Credit 4. I** A study of the physiochemical properties of soil with particular emphasis on methods and instruments employed in characterizing clay minerals, soil acidity, ionic adsorption and absorption, nutrient fixation and release and plant uptake. Prerequisites: 9 hours of soils, 9 hours of chemistry, and 3 hours of physics.
743. **Fertilizer Technology and Usage. (Agro 743 Fert Tech) (3-0) Credit 3. II.** A study of problems in fertilizer manufacture, storage, use, application, and chemical reactions of fertilizer when applied to soil, fertilizer recommendation according to soil types and crops.
753. **Soil Genesis and Classification. (Agro 753 Soil Gen and Class) (3-0) Credit 3. I.** The principles dealing with the reasons why soils differ, how soils differ and how soils are related to one another and to the landscape in which they occur.
763. **Soil Survey and Interpretation. (Agro 763 Soil Survey) (3-0) Credit 3. II.** The methods and techniques employed in making soil surveys and their interpretations for better land use.
773. **Soils for Land Use Planning. (Agro 773 Land Use) (3-0) Credit 3. I.** A study of factors affecting land use planning and the suitability of soils for various land uses such as residential and industrial development, septic tank fields, sewer lagoon, foundations, roads and streets, recreation, agricultural production and others.
801. **Seminar. (Agron. 801 Seminar) (1-0) Credit 1. I and II.** Presentation and discussion on topics of individual research.
802. **Special Problems. (Agro 802 Problems) (2-0) Credit 2. I and II.** Students will select from among the following areas to develop an investigative paper based on library, field and/or laboratory.
803. **Introduction to Biometrics. (Agro 803 Biometrics) (2-2) Credit 3.** A study of the scientific method, statistical concepts data, analytical procedures, and experimental designs.
813. **Application of Biometrics. (Agro 813 Biometrics) (2-2) Credit 3.** A study of error control through proper experimental design utilization in bio-research.

## Animal Science

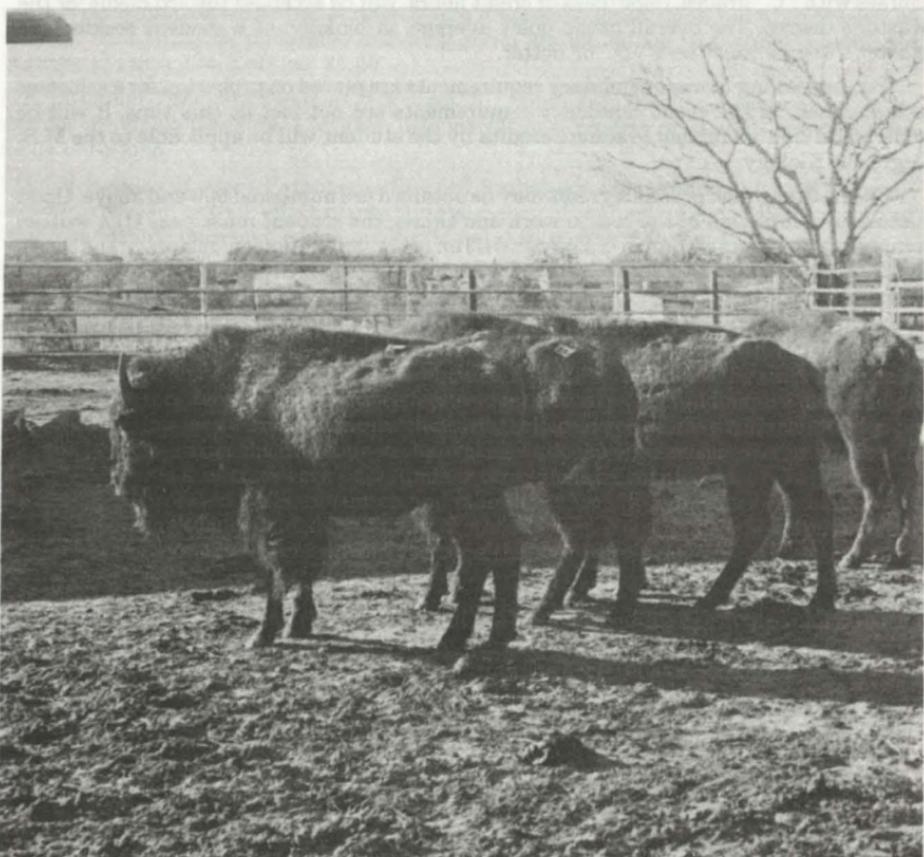
1981-82 Faculty

W. Baker, F. Pinkerton, A. Poindexter, L. Weatherspoon, Aubrey Watkins

Animal Science offers one Graduate level Course. The Research Program offers the graduate student in other areas of agriculture an opportunity for thesis Research.

### COURSE DESCRIPTION

**An. Science 523. Animal Reproduction. (AnSc 523 Reproduction) (3-0) Credit 3.** Physiology of reproduction, principles of normal and abnormal parturition, diagnosing and treating sterility, abortion, and reproduction failures.



# COLLEGE OF ARTS AND SCIENCES

## DEPARTMENT OF BIOLOGY

Dr. Edward Martin, Head

### Biology

#### Requirements for the Master's Degree:

A student entering graduate study in biology must present a minimum of 24 semester hours in undergraduate biology. The background in biology encompassing: general biology or zoology and botany. In addition to the minimum biology courses a student should have completed at least one year of 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 minimum 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.

#### Admission 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.

Courses for which graduate credit may be obtained are numbered 500 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 on defense of the thesis and fundamentals of biology.

The course requirements for the Master's degree are flexible. However, the choice and number of allied courses may be arranged by conferring with an assigned advisor and will depend on the student's field of specialization and on his or her previous training.

1. In order to be considered worthy of undertaking work toward the Master's degree, a student must display notable ability in biology, an aptitude in research, and facility in the use of the English Language. To demonstrate the student's fitness in these respects, the Department requires an examination. Action on admission for candidacy for a Master's degree will be taken after the student has been in residence for at least twelve (12) hours of graduate work in biology with an average of "B" or better.
2. An advisor will be appointed for each student to aid in arranging his program and in carrying it to completion. The sequence of courses to be taken in the Department and the choice of work in allied fields depend on the student's previous training and objectives. An understanding of the basic techniques and concepts of biology, chemistry, physics and mathematics is required.
3. In addition to the examination required by the Graduate Division, the student must pass a written comprehensive examination covering the fundamentals of biology and an oral comprehensive examination defending his research in the fundamentals of biology.

**Types of Programs Offered in 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.

**Environmental Toxicology Program****Master of Science Degree 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.

**Graduate Minor in Biology**

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

**DESCRIPTION OF COURSES****BIOLOGY**

**504. Embryology. (Biol 504 Embryology) (2-4) Credit 4.** Descriptive embryology; vertebrate development with special reference to mammals; dissections and examination of selected embryological materials, including serial section of the fetal pig. Prerequisite: Biology 114 and 124. Lab fee: \$3.00

**513. Seminar. (Sci 513 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.

**523. Principles of Plant Pathology. (Biol 523 Pathology) (2-3) Credit 3.** The fundamentals of parasitism as they effect plants and the means of controlling the diseases resulting from the various parasites which are detrimental to plants. Lab fee: \$3.00.

**523. Histology. (Biol 524 Histology) (2-4) Credit 4.** Microscopic study of tissues and organs of vertebrates; relation of structure to function. Lab fee: \$3.00

**533. Workshop for Elementary Teachers. (Sci Elem 533 Wkshp) (3-0) Credit 3.** Workshop in the teaching of Elementary School Science for in-service teachers or supervisors. Lectures, discussions, demonstrations, and construction of teaching materials with special projects; experiences in science principles and generalizations which teachers are called upon to present to and interpret for pupils in their classes.

**534. General Physiology. (Biol 534 Physiology) (2-4) Credit 4.** Organs of internal secretion, embryology, physiology, microscopic anatomy, and physiology. Prerequisite: Biology 114, 124 and 324.

**543. Earth Sciences. (Sci 543 Earth Sci) (3-0) Credit 3.** Introduction to astronomy; for teachers of science and mathematics in secondary schools; celestial sphere and coordinates thereon; measures of time; the solar system including the earth, moon, planets, comets, meteors, satellites, and the sun; the stars and their classifications; constellation study; double and variable stars; clusters; interstellar materials; the galactic system; and extra galactic systems. Prerequisite: Mathematics 103, 123.

**544. General Entomology. (Biol 544 Entomology) (3-2) Credit 4.** The structure, life history, habits and means of recognizing and classifying the more common insects. Attention is also given to their relations with man and other animals as well as with plants. Lab. fee \$3.00.

553. **Earth Sciences. (Sci 553 Earth Sci) (3-0) Credit 3.** Introduction to geology and weather; for teachers; general principles of physical geology, physiography geologic process and an introduction to historical geology and introduction to the fundamental principles of weather.
554. **Experimental Embryology. (Biol 554 Embryology) (2-4) Credit 4.** Modern problems and techniques of the development of the principles and mechanisms of development; analysis in factors operating in the morphogenesis, regeneration and development of selected vertebrates. Prerequisite: Biology 414 and 504.
564. **Systematic Botany. (Biol 564 Botany) (2-4) Credit 4.** Local flora, giving training in the identification and classification of the higher plants. Prerequisite: Botany 134.
683. **Experimental Genetics. (Biol 683 Genetics) (3-0) Credit 3.** Thorough experimentation to show how variations may be brought about; the techniques of mating and breeding to support accepted facts. Lab. fee: \$3.00
684. **Vertebrate Zoology. (Biol 684 Vertebrate) Credit 4.** The course is primarily concerned with phylum Chordata. It is to be presented in accordance with the recognized system of classification of Chordates. Emphasis is placed on evolution, development, physiology, and anatomy of major taxonomic groups of chordates. Prerequisites: Biology 414, 424 or equivalent or permission of the instructor. Lab. fee: \$3.00.
694. **Animal Breeding. (Biol 694 Breeding) (2-4) Credit 4.** Application of the principles of genetics to animal breeding and improvement. Comparison of various methods of selection and techniques. Prerequisite: Biology 524 Genetics. Lab. fee: \$3.00.
700. **Research in Botany. (Biol 700 Research).** This course will vary in credit according to the work performed, its value being indicated at registration. Research in Botany may be carried on in any area which the student has a sufficient background. Lab. fee: \$8.00.
- 703-713. **Selected Topics in Biology. (Biol 703-712 Select Topics) (2-2) Credit 3.** Basic concepts and recent advances and techniques in physiology, bacteriology, botany, genetics and entomology. Experiments, demonstration and field trips. Prerequisite: General Zoology, Botany or Biology.
704. **Biology for Teachers. (Biol 704 Teachers).** A training course for prospective teachers of Zoology and Botany. Lectures or conference, field and laboratory work. Prerequisite: at least Biology 604 and 644. Lab. fee: \$3.00.
724. **Dairy Bacteriology. (Biol 724 Bacteriology) (3-4) Credit 4.** Importance of bacteria in dairy products; the number and types of bacteria in dairy products and significance of their occurrence. Lab. fee: \$3.00.
574. **Genetics. (Biol 574 Genetics) (2-4) Credit 4.** Laws and principles governing heredity in plants and animals; relation to plant and animal improvement and to Eugenics. Prerequisite: Biology 134, 114. Lab. fee: \$2.00.
594. **General Microbiology. (Bacteriology) (Biol 594 Microbiology) (2-4) Credit 4.** Morphology, physiology, classification, cultivation and microorganisms, relation to agriculture, premedics, and industry. Prerequisite: General Chemistry, Biology 314 and 114. Lab. fee: \$3.00.
600. **Research in Zoology. (Biol 600 Research).** This course will vary in credit according to work performed, its value being indicated at registration. Research in Zoology may be carried on in any area listed which the student has a sufficient background. Lab. fee: \$8.00.
624. **General Parasitology. (Biol 624 Parasitology) (2-4) Credit 4.** Morphology, life history, diagnosis and control of the important parasites affecting man and other animals. Prerequisite: Biology 614. Lab. fee: \$3.00.
634. **Neurology. (Biol 634 Neurology) (2-4) Credit 4.** A brief review of the brain and cranial nerves of the shark; the morphology of the spinal cord and brain of a mammal; the principal tracts and nuclei reaction systems of the cord and brain of the human nervous system. Lab. fee: \$3.00.
- 640-650. **Seminar in Biological Problems. (Biol 640 650 Seminar).** Required of all graduate students in the department. No credit. Lab. fee: \$8.00.

**643. Field and Animal Ecology. (Biol 643 Ecology) Credit 3.** A study of the composition, dynamics and distribution of biotic communities in various section of the southwest. Outdoor camping and cooking; one week-end and 8 Saturday field trips (subject to change and/or approval). Transportation defrayed by student. Prerequisites: Biology 115, 125 and 134. Laboratory fee: \$2.00.

**664. General Invertebrate Zoology. (Biol 664 Invertebrate) (2-4) Credit 4.** Classification, morphology, embryology, physiology, and life histories of invertebrate exclusive of insects. Prerequisite: Biology 124. Lab. Fee: \$3.00.

**674. Plant Breeding. (Biol 674 Breeding) (2-4) Credit 4.** The application of the principles of genetics to plant improvement. Discussions, reports, lectures demonstrations and individual participation in techniques and methods are to be used as procedures of instruction. Prerequisite: Biology 254 Genetics.

### ENVIRONMENTAL TOXICOLOGY

**533. Physiology, Environment, and Man (3) (Biol. 533 Envir. Phys)** 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. It will place emphasis on the toxic elements in the environment, physical factors such as heat and ionizing radiation, and the special effects of time phase changes. The course will include: Routes of entry to action site, Metabolic fate of environmental agents Bioaccumulation, Interaction of environmental agents, principles and general concepts of adaptation.

**514. Occupational Toxicology (4) (2-4) (Biol. 514 Occup. Tox.)** The material presented in this course addresses itself to occupational chemical and biological hazards in general routes of human exposure, their toxic effects and methods of control. Toward these goals the course topics are divided into seven categories: Metals and metalloids, Chemical compounds, Organic high polymers, Pesticides, Physical hazards, Mineral dusts, Biologic hazards.

**553. Air Pollutants (3) (Biol. 553 Air Poll.)** To introduce the essentials of the toxicology of major air contaminants, the factors governing air quality criteria and standards and alternatives for air pollution abatement. Contents will include: Classification of air pollutants, Development of air pollution problems. Air pollution legislation and control programs. Effects of air pollution and air quality criteria, Air quality standards and cost-benefit considerations Properties of gaseous pollutants. Properties of particulates, Dispersion and dilution, Meteorology and natural cleansing processes, Pollutants from fossil fuels, Analysis of air pollutants, Smogs, Atmospheric oxidants, Potential pollutants from nuclear power plants, Heavy metals, Pollutants associated with special industries, Viable particles, Toxicity to vegetations, Human toxicity, Effects on pulmonary clearance, Inhalation carcinogenesis, Alternatives in the reduction of air pollution effects.

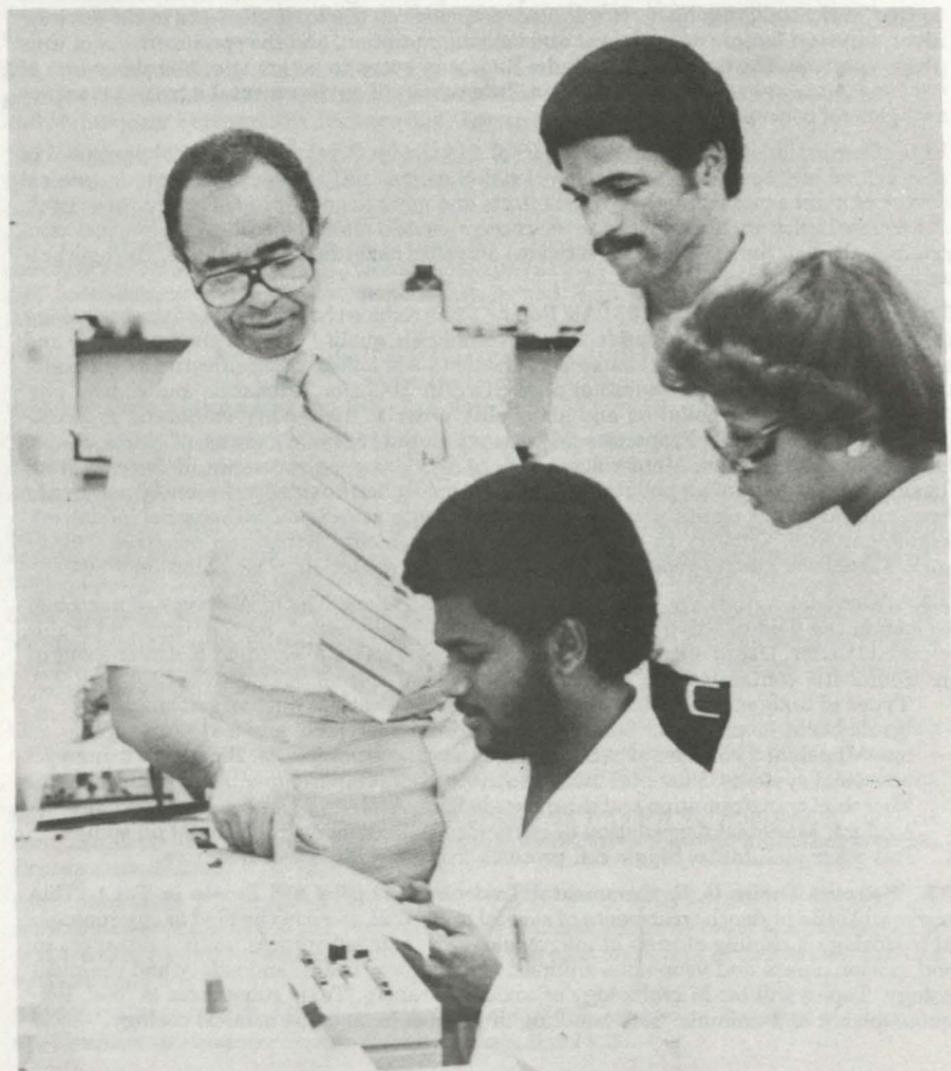
**563. Microbial Activity in Toxicology (3) (Biol. 563 Micro. Tox.)** A survey of microbial actions in the field of Environmental Toxicology. Toxigenic microorganisms and major microbial toxins. Use of microbial systems in toxicological studies. Microbial alterations of environmental contaminants. Topics to be discussed are:

Types of toxigenic microorganisms, Growth and death of microorganisms, Toxigenic bacteria and major bacterial toxins, Toxigenic fungi and major mycotoxins, Microbial formation of other environmental contaminants, Bioassays using microbial systems, Bacterial mutagenicity tests for environmental carcinogens, Microbial transformation and drug metabolism, Activity of gastro-intestinal microflora, Microbial degradation of pesticides, Microbial degradation of oil spills and other pollutants, Single cell proteins from unwanted cereal straws.

**573. Selected Topics in Environmental Toxicology (3) (Biol 573 Topics in Tox.)** This course will offer in-depth treatments of several important areas in the field of environmental toxicology including studies of microbiology of toxic substances, toxic substances in food, poison plants and venomous animals, occupational health and safety and chemical ecology. Topics will be: Microbiology of toxic substances, Toxic substances in food, Poisonous plants and animals, Safe handling of toxic substances, Chemical ecology.

**583. Legal Aspects of Environmental Toxicology (3) (Biol 583 Legal Aspects Tox.)** To provide a basic understanding of the laws designed to regulate the use of toxic chemicals in the environment; to discuss 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; to inform students of the roles of Federal regulatory agencies; to probe alternatives to governmental control. The aspects will include: Toxic chemicals and Environmental Quality, National environmental Policy Act of 1969 (PL 91-90), Toxic substance control act (currently in joint congressional conference, Air pollution legislation, Water pollution legislation, Pesticide regulations, Consumer protection legislation, Worker protection Legislation — Occupational Safety and Health Act of 1970, Inside Federal regulatory agencies, Alternatives to Government Control, International effort, Case studies (DDT, cyclamates, PVC, 2,4,5-T, etc).

**593. Chemical Ecology (3) (Biol. 593 Chem. Ecol.)** Learn scientific study of 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, Research in Chemical Ecology.



# DEPARTMENT OF CHEMISTRY

Dr. John Williams, Head

## Chemistry

Persons who plan to work toward the MS degree in chemistry must fulfill the undergraduate requirements, which are essentially: one year of inorganic chemistry, one year of analytical chemistry, one year of organic chemistry, one year 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.

Upon acceptance as a graduate student in chemistry an advisor will be assigned who shall advise the student on courses to pursue, etc.

At the conclusion of a minimum of twelve semester hours of graduate work in chemistry, satisfactorily completed with an average of "B" or better, a formal application must be made for admission to candidacy. This application must be approved by the heads of the major and minor department and submitted to the Director of Graduate Studies for approval. Research projects for the thesis will be assigned before the student has been approved as a candidate.

A reading knowledge of French or German is required for all candidates.

After approval of the thesis, the candidate will be given a written and/or oral preliminary examination in his major and minor fields. It is required that this exam must be taken at least six weeks before graduation.

The final examination will be oral and shall be over subject materials not covered in the preliminary exam and the thesis.

It is recommended that persons who plan to qualify for the M.S. Degree in chemistry spend at least one year in residence and that those who plan to study during the summer periods plan to spend at least one summer which can be devoted entirely to research. It is further required that the thesis be of such quality that it may be published in an accepted scientific journal. Below is a suggested outline of study for the various fields of chemistry. These, of course, represent the minimum requirement.

Only six (6) hours credit for courses designed especially for summer institutes may be applied toward an M.S. degree in Chemistry, only three (3) hours for a minor. The minimum number of hours required for a minor is ten (10) hours of courses on the graduate level.

Each candidate is expected to successfully complete a *minimum* of 24 semester hours of course work exclusive of research. These courses must include: Chem 534, Chem 613, Chem 704, Chem 732, Chem 764, Chem 783, and enough graduate electives in chemistry to satisfy the semester-hour requirement.

## DESCRIPTION OF COURSES

**500. Research. (Chem 500 Research) Credit arranged. I or II.** Problems for investigation may be selected from one of the following fields of chemistry: 1. Analytical; 2. Biochemistry; 3. Inorganic; 4. Organic; 5. Physical. Lab. fee: \$8.00.

**513. Seminar. (Sci 513 Seminar) (3-0) Credit 3. I or II.** Seminar in biology, chemistry and physics for in-service teachers. Lectures, demonstrations, reports on current trends in the fields of science.

**533. Workshop for Elementary Teachers. (Sci 53 Elem Wkshp) (3-0) Credit 3. I or II.** Workshop in the teaching of Elementary School Science for in-service teachers or

supervisors. Lectures, discussions, demonstrations, and construction of teaching materials and special projects; experiences in science principles and generalizations which teachers are called upon to present to and interpret for pupils in their classes.

**534. General Biochemistry.** (Chem 534 Biochemistry) Credit 4. I or II and Summers. (2-4) Graduate. A basic and extensive 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. Physicochemical relation of living matter; chemistry of foodstuffs and tissues; quantitative analysis of blood tissue and urine constituents; enzymes, digestion, absorption, metabolism, nutrition and biophysics. Prerequisite: Chemistry 244, or 315 or permission of instructor.

**600. Research.** (Chem 600 Research) See chemistry 500. Lab. fee: \$8.00.

**613 and 623. Advanced Inorganic Chemistry.** (Chem 613-623 Inorganic) (3-0) Credit 3. I or II. 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.

**654. Nuclear and Radiochemistry.** (Chem 654 Nuclear) (2-4) Credit 4. I or II. A study of the theories of nuclear structure, nuclear energy, nuclear reactions and radioactivity. Radiation detection and measurement; interaction or radiation with matter; health physics; radioisotope technology. Prerequisite: Consent of instructor. Lab. fee: \$2.00.

**700. Research.** (Chem 700 Research) See Chemistry 500. Lab Fee: \$8.00.

**703-713. Chemical Principles.** (Chem 703-713 Principles) (3-0) Credit 3. I or II. A survey course emphasizing extended treatment, development and application of selected fundamental concepts and principles of chemistry.

**704. Advanced Analytical Chemistry.** (Chem 704 Analytical) (3-6) Credit 4. I or II. Chemical and Instrumental techniques used in 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.

**714. Identification of Organic Compounds.** (Chem 714 Compounds) (Qual Organic Analysis) (2-4) Credit 4. I or II. The separation and identification of pure organic compounds and mixtures. Lab. fee: \$2.00.

**723. Quantitative Organic Chemistry.** (Chem 723 Quan Organic) (1-4) Credit 3. I or II. The determination of elements and functional groups by micromethods with an introduction to micromethods. Lab fee: \$3.00.

**743. Advanced Topics in Organic Chemistry.** (Chem 743 Topics) (3-0) I or II. (a) Stereochemistry; (b) Reaction Mechanism; (c) Terpenes and carbohydrates; three hours credit for each topic.

**732. Advanced Organic Chemistry.** (Chem 732 Organic) (2-0) Credit 2. I or II. A review of elementary organic chemistry with an extension of more advanced topics. Includes assigned subject material.

**752. Intermediary Metabolism.** (Chem 752 Metabolism) (0-4) Credit 2. I or II. A quantitative study of the intermediate formed in cellular metabolism of fats, carbohydrates, proteins, and minerals employing equipment currently used in biochemical research. Both manometric and spectrometric methods are included. Prerequisite: 434, or taken concurrently with 753. Lab. fee: \$3.00.

**753. Intermediary Metabolism.** (Chem 753 Metabolism) (3-0) Credit 3. I or II. The intermediates formed in the metabolism of fats, carbohydrates, proteins, minerals and nucleic acids and interrelationship between the metabolic pathways in both plants and animals. Prerequisites: 434 and 424.

**762. Organic Synthesis.** (Chem 762 Synthesis) (1-4) Credit 2. I or II. Conferences and laboratory work dealing with the syntheses of various organic compounds. Prerequisite: one year of organic chemistry. Lab. fee: \$3.00.

- 763. Biochemical and Clinical Analysis. (Chem 763 Clinical) (0-6) Credit 3. I or II.** Conference and laboratory work dealing with analysis of blood, urine and vitamin essay. Prerequisite: Chemistry 435. Lab. fee: \$3.00.
- 764. Instrumental Analysis. (Chem 762 Analysis) (3-4) Credit 4. I or II.** The Theoretical principles coupled with practice involving modern instrumental techniques used for elucidation and characterization of molecular structure and physical properties of systems in Chemistry, including Biochemical and Biomedical systems. Trace Analysis. Techniques include: Polarography, Fluorometry, Differential Thermal Analysis, NMR, Atomic Absorption, Mass Spectrometry, Infrared and UV-Visible Spectroscopy, and Ion Selective Electrode Methods. Course will emphasize computer acquisition and reduction of experimental data. Prerequisites: Chem 424. Lab fee: \$2.00.
- 782. Topics in the Chemistry of Nutrition. (Chem 782 Nutrition) (2-0) Credit 2. I or II.** Lectures, assigned readings on the most recent developments in research on vitamins, amino acids, proteins, minerals and hormones as related to human and animal nutrition. Prerequisite: Chemistry 453.
- 783. Advanced Physical Chemistry. (Chem 783 Physical) (3-0) Credit 3. I or II.** A lecture course dealing with advanced topics of special interest in modern physical chemistry in areas including experimental and theoretical thermodynamics, Chemical Kinetics, Collision and Transition State Theories, Atomic and Molecular Spectra, Quantum Mechanical Systems, Photochemistry, Structure of Crystals and liquids, Surface Chemistry, Macromolecules, and Gas phase reactions. Specific areas to be announced in advance of the semester in which the course will be offered. Prerequisites: Chem 414-424, Mathematics through Differential Equations.
- 784. Nutrition. (Chem 784 Nutrition) Credit 4. I or II.** Lectures on recent developments in nutrition and biochemical role of vitamins, amino acids, proteins, minerals and hormones as related to humans and animals. Laboratory work will include experiments on use of synthetic diets for animals and production of vitamin deficiencies. Lab. fee: \$3.00.
- 800. Research. (Chem 800 Research) I or II.** See Chemistry 500. Lab. fee: \$8.00.
- 802. Electrochemistry. (Chem 802 Electro) (0-4) Credit 2. I or II.** Conferences, assigned readings and exercises in the laboratory dealing with fundamental theories of electrochemistry and the preparation of certain inorganic and organic compounds. Prerequisite: Chemistry 424.
- 803. Applications of X-Ray Diffraction. (Chem 803 X-Ray) (1-4) Chem 3. I or II.** 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: Chemistry 424.
- 813. Quantum Chemistry. (Chem 813 Quantum) (3-0) Credit 3. I or II.** Elementary Principles of quantum mechanics with applications to atoms, molecules, and chemical topics. Angular Momentum, perturbation and variation methods. Matrix and group theory methods in quantum mechanics. Molecular orbital theory. Prerequisite: Chemistry 414-424. Mathematics: Linear Algebra and Differential Equations.
- 823. Chemical Thermodynamics. (Chem 823 Thermodynamics) (3-0) Credit 3. I or II.** A rigorous presentation of classical thermodynamics. The application of the laws of thermodynamics to chemical systems including systems with intensive properties other than temperature and pressure. Calculations of heats of reaction, free energy and entropy using tabulated thermodynamic data. Principles and methods of statistical thermodynamics applied to simple physico-chemical systems. Introduction to the thermodynamics of irreversible processes. Bioenergetics.
- 900. Research. (Chem 900 Research) I and II.** See Chemistry 500. Lab. fee: \$8.00.
- 911 or 913. Seminar. (Chem 911 or 913 Seminar) (1-0 or 3-0) Credit 1 or 3. I or II.** 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.

921. Seminar. (Chem 921 Seminar). Continuation of 911.

### SCIENCE EDUCATION

543. Earth Science. (Sci 543 Earth Sci) (3-0) Credit 3. Introduction to astronomy; for teachers of science and mathematics in secondary schools; celestial sphere and coordinates thereon; measures of time; the solar system including the earth, moon, planets, comets, meteors, satellites, and the sun.

553. Earth Sciences. (Sci 553 Earth Sci) (3-0) Credit 3. Introduction to geology and weather; for teachers; general principles of physical geology, physiography; geologic processes and an introduction to historical geology and introduction to the fundamental principles of weather.

613-623. Modern Concepts in Physical Science. (Sci 613-623) (2-2) Credit 3. Modern concepts and Principles of the Physical Sciences. The course 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.

513-523. Physics for In-Service Teachers. (Phys 513, 523 Phys In-Serv Teach) (2-3) Credit 3. Designed primarily for secondary school teachers of physics; graduate credit may be obtained; offered usually during the summer; theoretical and experimental techniques of teaching physics in secondary schools, including those developed by the PSSC group at MIT and the Harvard Projects Physics Group at Harvard.

### PHYSICS

Physics 513, 523. General Physics (for the In-Service Teacher) (Phys 513-523 Gen Physics) (3-3) Credit 3. Fundamental Principles of Physics with laboratory. Emphasis on principles and new approaches to the teaching of physics. Prerequisite: Consent of Instructor. \$2.00.



# DEPARTMENT OF ENGLISH AND FOREIGN LANGUAGES

## English

Dr. Millard F. Eiland

1981-82 Faculty

Mr. Frankie Ledbetter, Mr. William Chapman, Dr. E. Joahanne Thomas

The English Department offers a Master of Arts degree.

For admission to graduate study in English a student should present at least an undergraduate minor, 24 semester hours in this field. A student is expected to pass an English qualifying examination before admission to candidacy is approved.

Prerequisite courses, such as the English Language which the student did not take while an undergraduate at this university, must be taken before the student begins the coursework in the graduate program.

### REQUIREMENTS FOR A MASTER OF ARTS DEGREE IN ENGLISH

Requirements are stated in terms of minimum essentials. Students are urged to indicate some effort toward enrichment of background by including in their programs more than the minimum essentials. The 21 credit hours must be in courses on the graduate level — numbered 500 and above.

#### THE MAJOR — Suggested courses

Course Number	Credit Hours
English 533, 543, 583, 753, 803, 813, 823, 883 .....	3 each

### ADMISSION TO CANDIDACY

Action on admission to candidacy for a Master of Arts Degree in English will be taken after the student (1) has been in residence for at least one semester or summer session, earning at least twelve hours of graduate course credits; (2) has maintained a "B" average or better; (3) has 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 he does not meet the requirements for candidacy at this time, it will be understood that no more graduate credits earned by him will be applicable to a Master's Degree.

### MINORS

Prerequisite — The Equivalent of an Undergraduate Minor in English

#### In English

The following courses are required to fulfill the 12 credit hours for a graduate minor in English:

Course Number	Credit Hours
English 533, 583, 813, 883 .....	3 each

For the major and the minor, the candidate's program of studies is always subject to revision and approval by the department.

### DESCRIPTION OF COURSES

#### ENGLISH

533. *Medieval Literature.* (Eng 533 Medieval Litr) Credit 3. Ideas, political and social conditions as revealed in the writings of chief representatives of the period.

543. **A study of the Short Story.** (Eng 543 Short Story) Credit 3. Study and analysis of the short story.
563. **Linguistics and Grammar** (Eng. 563 Linguistics and Grammar) A scientific approach to grammar. Structural, generative and transformational grammar in the linguistic context.
583. **The Novel.** (Eng 583 Novel) Credit 3. Relation between literature and social conditions as revealed in outstanding examples in the English Novel.
- 613-616. **Dramatic Workshop.** (Eng 613-616 Drama Wrksp) Credit 3 or 6. Opportunity for the graduate student to study all phases of drama, to assist and participate in the presentation of at least one play to be on the campus during the summer. Field trips involving summer theater productions and radio presentations in Houston required.
753. **Seminar in Masterpieces of Literature.** (Eng 753 Seminar) (0-3) Credit 3. Historical and comparative study of masters of English and American Literature.
803. **Bibliography and Methods of Research.** (Eng 803 Research) Credit 3. Exercises in minor research projects.
813. **Literary Criticism.** (Eng 813 Criticism) Credit 3. A study of the great critics — classical, foreign, English, and American from Plato to T. E. Elliot.
823. **Seminar in Thesis Writing.** (Eng 823 Thesis) Credit 3. Open only to candidates engaged in writing the Master's Thesis in English.
833. **Studies in the Teaching of English.** (Eng 833 Tchg English) Credit 3. Special problems; critical study and evaluation of methods.
853. **Twentieth-Century Literature.** (Eng 853, 20th Century) Credit 3. Modern and contemporary English and American authors.
- 873-876. **English Workshop in the Language Arts.** (Eng 873-876 Workshop) Credit 3 or 6. Provides enrichment in language usage and methods for non-English majors as well as English majors.
883. **Chaucer's Major Poetry.** (Eng 883 Chaucer) Credit 3. The Canterbury Tales: Linguistic studies.

## History

**Dr. George R. Woolfolk**

1981-82 Faculty

Dr. Anasuya S. Rao, Purvis M. Carter

Prerequisites for majoring or minoring in the field of History are: (a) Lower College courses in American and European History; (b) an advanced course in either modern and/or contemporary European or American History; (c) A cumulative average of "B" in their social science courses on the undergraduate level; (d) Demonstrated mastery of research skills is prerequisite to admission to precandidacy.

The History major Master of Arts program requires 20 semester hours and the minor requires 12 semester hours. A thesis is required.

The M.Ed. degree requires completion of 36 semester hours including the following:

History	6 sem. hrs.
Economics	3 sem. hrs.
Geography	3 sem. hrs.
Sociology	3 sem. hrs.
Research Techniques	5 sem. hrs.
Seminar	

A series of research studies on subjects which require duplication of education to history is required.

## DESCRIPTION OF COURSES

**503. Methods of Teaching History. (Hist 503 Tchg Meth) (3-0) Credit 3.** The nature of Social Studies: the development and changing emphasis in the current social studies programs; purposes and values; classroom methods and materials. Lectures, projects, reading, tests and laboratory experiences.

**522. History (Lib Tech & Res. for the Social Studies) (2-0) Credit 2.** 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 skill development in social studies through the use of multiple resources.

**563. Survey of the Critical Attitude and Tools of Scientific History. (Hist 563 Tools) (3-0) Credit 3. I or II.** History and its relation 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, tests.

**572. Historical Investigative Paper. (Hist 572 Inves Paper) (2-0) Credit 2. I and II.** Credit allowed upon satisfactory completion of required thesis.

**702. Seminar in Social Studies Education. (Hist 702 Seminar) (2-0) Credit 2.** Prerequisite History 503. 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 the Laboratory classroom.

**703. Great American Historians. (Hist. 703 Amer Histrns) (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 writings will be selected from the following periods: Colonial, Revolutionary, Nationalistic, Modern and Contemporary. Lectures, discussions, special readings, special reports.

**823. Multi Cultural Education of Social Studies. (History 823) Credit 3.** Emphasis is placed on helping Administrators and teachers develop both a knowledgeable base concerning the area of multi-cultural and multi-ethnic education and skills or action base (strategies, methods, and techniques) for application in various situations.

## EUROPEAN COURSES

**513. French Revolution and Napoleon. (Hist 513 Fren Revolt) (3-0) Seminar** approach to the cause and the development of the revolution, the disciplining of the Revolution by Napoleon, the greater France in Europe — the imperialistic impulse of the Revolution. Established areas of interest and research studies in both the scholarship and the substantive facts of the course.

**523. Imperialism. (Hist 523 Imperialism) (3-0) Credit 3.** The Era of modern imperialism, with its causes, results, and techniques are 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.

**533 and 543. English, 1485 to the Present. (Hist 533-543 England) (3-0) Credit 3. I.** 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; and World War I, Britain between wars; the fight for survival — global war. Lectures, discussions, special reports. Offered in odd years.

**553. Europe, 1914 to the Present. (Hist 553 Europe) (3-0) Credit 3. I.** 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 class between democracy and totalitarianism which led to global war and the Atomic Age — from the subject matter of the course. Lectures, discussions, special reports. Offered in odd years.

## CIVILIZATION

583. **History of Civilization to 1500. (Hist 583 Civilization) (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, Reformation. Lectures, reading, tests, and special reports.

593. **Hist of Civilization from 1500 to the Present. (Hist 593 Civilization) (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 England liberalism, nationalistic unifications, socialism, imperialism, and Twentieth Century fascism and democracy. Lectures, readings, tests and special reports.

## LATIN AMERICA

623. **Problems in Latin-American History. (Hist 623 Latin Amer) (3-0) Credit 3.** I. 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.

## UNITED STATES

613. **American Revolution and the Constitution. (Hist 613 Amer Revoltn) (3-0) Credit 3.** An examination of the development of scholarship around the following areas of the American Revolutionary experiences as clinical phenomena in the development of Revolutions: The "Revolution" and American Scholarship, Ideological background, Actionist and Vigilantes, the Fall of Tory rule, the internal revolution, the fever subsides, Neuer, Ordnung. Special reports and research projects. Graduate status.

603. **Western American History. (Hist 603 Western Amer) (3-0) Credit 3. II.** Seminar in the exploration, settlement and development of the region west of the Mississippi; designed to discover and preserve materials on the early Spanish, French, African and Anglo-Saxon Explorations and the contributions of the immigrants who made their homes in the Western region later.

633-643. **American Foreign Relations, 1775 to the Present. (Hist 633-643 Foreign Rltn) (3-0) Credit 3. I and II.** 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.

633-643. **American Foreign Relations, 1775 to the Present. (Hist 633-643 Foreign Rltn) (3-0) Credit 3. I and II.** The United States in its relations with Latin-America and the rest of the world; public opinion and the economy.

653. **Contemporary United States History, 1898 to the Present. (Hist 653 Contemporary) (3-0) or (2-0) Credit 3 or 2. II.** 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, special reports.

633. **Economic History of the United States. (Hist 633 U. S. Econ) (3-0) Credit 3. I.** 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 various mass movements; industrialization for the country and the necessity for governmental regulations; historical interpretation of trade unions, employer's association, cooperative. Lectures, discussions, readings, special reports.

673. **History of the Negro in America. (Hist 463 Negro) (3-0) Credit 3.** This course emphasizes the importance of the Negro's own history and the positive role he has played in shaping his destiny. Also there will be investigation of 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.

**683. Sectionalism and Civil War, 1700-1867. (Hist 683 Sectionalism) (3-0) Credit 3.**  
**I.** Regional hypothesis; socio-economic regionalism; government, politics, and the regional compromise in the middle period; ideas in important issues and men; reconstruction and the new nation. Lectures, discussions, special reports.

**693. The New South, 1865 to the Present. (Hist 693 New South) (3-0) Credit 3.**  
**II.** 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, special reports.



# DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE

Dr. A. D. Stewart, Head

The Master of Science degree and Professional Certification in Mathematics are available. For requirements for Professional Certification see Graduate Teacher Education Programs.

A person holding the Bachelor of Science Degree from an approved college with a major in Mathematics is eligible for admission to graduate study leading to the Master of Science in Mathematics. Otherwise, the necessary deficiencies will have to be made up before work can begin toward the Master's Degree.

A minimum grade of "B" must be earned in each course.

Programs leading to Masters of Science Degree in mathematics: A student may select one of three programs.

Program A — 30 semester hours of graduate mathematics.

Program B — 21 semester hours of graduate mathematics and a minor in some other area.

Program C — (Professional Certificate) 21 semester hours of graduate mathematics; 12 hours of education; and 6 hours of thesis research.

In addition, each program must include a carefully prepared thesis. Research opportunities are available in Differential Equations, Topology, Geometry, Algebra, Mathematics Education, and Matrix Theory.

A minor in Mathematics at the graduate level must include 12 semester hours of graduate mathematics.

## DESCRIPTION OF COURSES

**503. Reading and Research. (Math 503 Rdng and Res) (3-0) Credit 3.** Reading and discussion of advanced Mathematics Articles appearing in various Mathematical Journals; Patterns and Techniques of Mathematical Research; Modern Techniques and Trends in the field of Advanced Mathematics.

**513. Seminar. (Math 513 Seminar) (3-0) Credit 3.** Seminar in Mathematics for in-service teachers. Lectures, demonstrations, reports on current trends in the field of Mathematics. Consent of Instructor.

**523. The Real Number System. (Math 523 Real Num Sys) (3-0) Credit 3.** The development of the real number system, deductive systems, field properties, order properties, completeness properties, powers and roots, and decimal representations. Prerequisite: Math 224.

**533. Selected Topics in Modern Mathematics. (Math 533 Select Topics) (3-0) Credit 3.** Introduction to symbolic logic and set theory; applications to elementary algebra, linear and plane analytical geometry; probability and statistics. Consent of Instructor.

**543. Fourier Series and Boundary Value Problems. (Math 543 Fouriers) (3-0) Credit 3.** Application of partial differential equations to problems involving heat flow, fluid flow, electric fields, mechanical vibrations, and other similar problems arising in chemistry, physics, radio theory, and engineering. Prerequisite: One course in ordinary differential equations.

**553. Calculus for High School Science and Mathematics Teachers. (Math 553 Calculus) (3-0) Credit 3.** Concise treatment of certain fundamental ideas in the mathematics of the calculus with a point of view of extending, illuminating, and clarifying the teacher's past knowledge with understanding. Consent of Instructor.

**563. Modern Techniques in Elementary Mathematics. (Math 563 Mod Tech) (3-0) Credit 3.** This course is designed especially for teachers of elementary mathematics. Teaching

strategies: Pedagogical and motivational techniques; effective uses of media and mathematics materials.

**573. Computer Programming for High-School Teachers. (Math 573 Prog for Teachers) (2-2) Credit 3.** Basic computer concepts and terminology. Computer characteristics, storage fundamentals of input and output operations. Flow charts and block diagrams. Programming elementary logarithms using a scientific language.

**583. Structure and Concepts of Arithmetic. (Math 583 Structure) (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

**593. Logic and Geometry. (Math 593 Logic) (3-0) Credit 3.** Elementary logic, plausible, reasoning, informal geometry, coordinate geometry, and geometry as a mathematic system.

**623. Introduction to Partial Differential Equations. (Math 623 Diff Equatns) (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; existence and uniqueness theorems.

**633. Elementary Functions. (Math 633 Functions) (3-0) Credit 3.** Real numbers system, algebraic functions and their properties, circular functions and their properties, exponential functions and their properties, logarithmic functions and their properties, hyperbolic functions and their properties. Prerequisite: Graduate standing in Mathematics.

**643. Integrated Introduction to Geometry for Teachers. (Math 643 Integ Geom) (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; geometics in the Euclidean plane; transformation groups; hyperbolic geometry; elliptic geometry. Consent of Instructor.

**653. Intermediate Analysis. (Math 653 Analysis) (3-0) Credit 3.** Continuous functions, sequences, limits of functions, integrable functions, properties of integrable functions, the integral of continuous and bounded functions, series; step-functions. Prerequisite: Three (3) courses in Calculus or consent of Instructor.

**673. Advanced Analysis. (Math 673 Adv Analysis) (3-0) Credit 3.** Continuous functions of several numbers, properties of functions of several numbers, the double integral, the integrated integral, the Riemann-Stieltjes integral. Prerequisite: Mathematics 623.

**693. Modern Techniques in Secondary Mathematics. (Math 693 Mod Tech) (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 audio and video equipment and materials; small group methods.

**703. Modern Algebra. (Math 703 Algebra) (3-0) Credit 3.** Fundamental concepts of Algebra, integral domains, fields. Introduction to such concepts as groups, vector spaces, and lattices. Prerequisite: Math 453.

**723. Analytic Mechanics. (Math 723 Anal Mech) (3-0) Credit 3.** Application of mathematics to problems of physics and engineering. Special emphasis will be placed upon the role of differential equations in describing physical laws and principles, such as Newton's Law of Motion, Einstein's equation of motion and Kirchoff's Law of Electricity. Prerequisite: Consent of Instructor.

**743. Statistics for High School Teachers. (Math 743 Stat HS Tchr) (3-0) Credit 3.** Processes of statistical methods, with reference to applications in various fields and with special application to analysis of school data.

**763. Intermediate Differential Equations. (Math 763 Diff Equatns) (3-0) Credit 3.** Existence theorems, uniqueness theorems, vector and matrix treatment of linear and non-linear systems of ordinary differential equations.

**813. Theory of Matrices. (Math 813 Matrices) (3-0) Credit 3.** Definitions, matrix algebra; inverse of a matrix, transpose of a matrix, rank of a matrix; matrices and linear transformations; differentiations and integration of matrices; application of matrices to systems of linear equations; quadratic forms, bilinear forms and systems of differential equations. Prerequisite: Math 224.

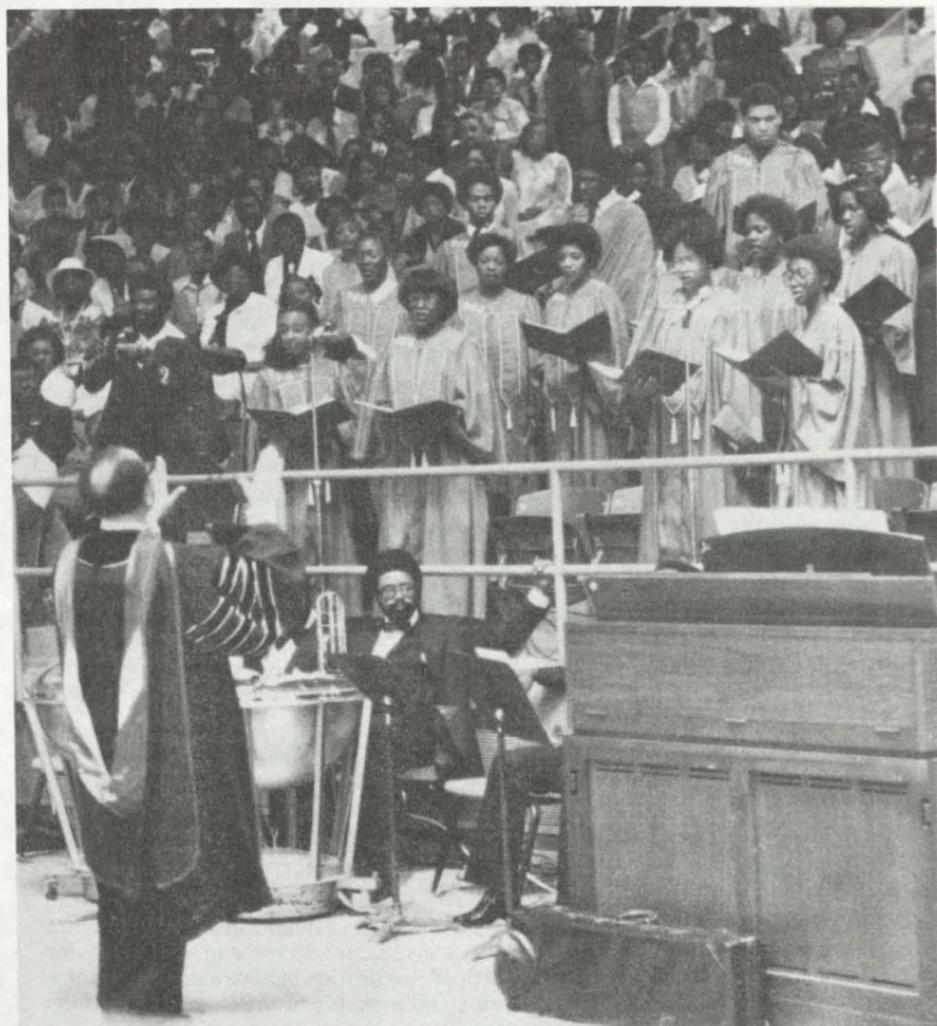
**843. Techniques of Research. (Math 843 Research) (3-0) Credit 3.** Study of research in mathematics education, the sources of information and techniques available, and approved form and style in preparation of research reports and thesis.

**853. Project and/or Thesis Research. (Math 853 Project) (3-0) Credit 3 to 6 hrs.** Prerequisites: Mathematics 843 and advisors' approval for project or thesis study. Individual conferences and advisement on selection and preparation of research proposal or thesis study.

**863. Real Variables. (Math 683 Variables) (3-0) Credit 3.** Introduction to point sets, rigorous approach to the concept of function and limit, the Riemann integral, the Lebesgue integral, and some of their generalizations. Prerequisite: Math 653 or consent of Instructor.

**873. Probability. (Math 873 Probability) (3-0) Credit 3.** Theory of permutations, combinations, distribution, repeated trial, hitting a target, and discussion of the probability integral. Prerequisite: Math 224.

**893. Complex Variables. (Math 893 Complex Varbl) (3-0) Credit 3.** Rational functions of a complex variable, conformal mapping. Cauchy-Riemann equations, analytical continuation, residues and applications. Prerequisite: Math 653.



# DEPARTMENT OF MUSIC AND DRAMA

## Music

Dr. Robert A. Henry

The University offers courses leading to the degree of Master of Arts with a major in Music. This degree is open to persons holding a Bachelor of Music or Bachelor of Science or Arts with concentration in music from an institution of recognized standing. These degrees presented as entrance requirements in the graduate department must represent an amount of work equivalent to that prescribed in the School of Arts and Sciences at Prairie View A&M University.

Candidates for the master's degree may major in music education or applied music.

## MUSIC EDUCATION

**Requirements: 12 to 15 hours — 30 hours in all subjects**

1. Courses in the field: 12-15 hours  
Thesis: A written literary work involving original research.
2. Applied Music (6 hours minimum)  
Continuation of one's applied instrument.
3. Minor Cognates: Any one: —  
Aural Theory  
Written Theory  
Music Literature

## APPLIED MUSIC

### PIANO

**Requirements:**

Undergraduate recital already given.

1. Three complete concertos
2. Material for two programs.
3. Public performance of a concerto; chamber ensemble, and one recital program for piano.
4. Must have two sequences in minor cognate as:  
Aural Theory  
Written Theory  
Music Literature  
Music Education

Four hours of daily practice: two one-hour lessons, one-hour studio class each week, if possible. Three hours each semester.

**12 to 15 hours credit required (In Piano alone 30 hours total for degree)**

### Piano Recital

### VOICE

**Requirements:**

Undergraduate recital already given.

1. Two complete roles appropriate to the voice
2. Two complete oratorio roles

3. Public performance of one recital (artist's)

4. Materials for two programs

Three hours of daily practice; 2 one-hour lessons; one-hour studio class if possible each week. Three hours credit each semester.

12 to 15 hours credit required in voice alone (30 hours total for degree)

## DESCRIPTION OF COURSES

### MUSIC EDUCATION

683. **The Teaching of Music Literature.** (Music 683 Tchg Litr) (3-0) Credit 3. Problems in the presentation of music appreciation to high school students.

753. **The Teaching of Vocal and Instrumental Music in the Elementary School.** (Music 753 Elem Sch Tech) (3-0) Credit 3. Organizational and administration of rhythm bands and small instrumental groups in the elementary school, and of choral groups.

773. **Problems in Teaching Sight-Singing and Ear Training.** (Music 773 Sight Sing) (3-0) Credit 3. Student must audit first-year courses and engage in practice teaching plus one hour of theory and one hour of lecture.

873. **Teaching of Vocal Music in High School.** (Music 873 HS Vocal) (3-0) Credit 3. Organization and administration of (a cappella) choirs, boys' chorus or glee club, girls' chorus or glee clubs, and voice training classes.

893. **The Teaching of Instrumental Music in the High School.** (Music 893 HS instrum) (3-0) Credit 3. Organizational administration of bands and orchestras in the junior and senior high schools.

911, 921, 931, 941, 951, 961, 971, 981, 991. **Music Workshop.** (Music 911, 921, 931, 941, 951, 961, 971, 981, 991 Workshop) Credit I. A comprehensive four day course offered the first six weeks of the summer school embracing the organization and conducting of bands, choirs and piano classes and presenting evaluative criteria of music teaching in elementary and high schools. Music fee: \$3.00.

943. **Drill and Band Formation in the High School.** (Music 943 HS Band) (3-0) Credit 3. Signals, formations, maneuvers for the Marching Band; band shows and pantomimes.

963. **Piano Class Teaching.** (Music 963 Piano Meth) (3-0) Credit 3. Methods of teaching piano in groups of 10 to 30 students in the elementary and high schools.

973. **Seminar in Music Education.** (Music 973 Seminar) (3-0) Credit 3. Current philosophy of education; the place of music in the curriculum; review and criticism of music curricula, and evaluation of materials and methods of the various types of music schools existing in America; special study of some problems associated with the aspect of music teaching in which interested.

### APPLIED MUSIC — PIANO

Music 613. **Piano.** (Musc 613 Piano) (3-0) Credit 3. Three concertos of contrasting type (Mozart, Beethoven, Brahms, Schumann, Chopin, Liszt, Tschaikowsky, Rachmaninoff, etc.).

Music 623. (Musc 623 Piano) (3-0) Credit 3. Sufficient materials for two programs including three or four major compositions of the classical and romantic school. These programs should also include a varied selection of the representative modern compositions.

Bach — Italian Concerto toccatas, transcription by Tausig, Busoni, Liszt, etc. Chromatic Fantasy and Fugue.

Beethoven — A sonata of the grade of difficulty of Op. 53, 57, 109, 110, 111, or Chopin Sonata, and an earlier sonata; or one of Mozart, or modern one.

Music 713. **Piano.** (Musc 713 Piano) (3-0) Credit 3. Romantic Composers Schumann — (Etude Symphoniques); Franck — (Prelude, Chorale and Fugue); Brahms-Handel — (Variations and Fugue); Liszt — (Sonata, etc.)

**Music 723. Piano. (Music 723 Piano) (3-0) Credit 3.** Modern Composers — Debussy, Ravel, Scriabin, etc., Contemporary Moderns including American Composers.

#### APPLIED MUSIC — VOICE

**Voice 613. (Music 613 Voice) Credit 3.** A minimum of 6 songs in each of the four languages (in addition to the undergraduate degree — English, French, German and Italian.

**Voice 623. (Music 623 Voice) Credit 3.** Four arias (Languages not specified).

**Voice 713. (Music 713 Voice) Credit 3.** Romantic Composers — Schumann; Schubert, Wagner, Liszt, etc.

**Voice 723. (Music 723 Voice) Credit 3.** Modern Composers — Debussy; Rachmaninoff, etc. Contemporary writers including American Composers.

**612, 622, 712, 722, 812, 822, 912, 922. (Music 612, 622, 712, 722, 812, 822, 912, 922, Choir) (Choral Practice) (College Choir) (½-4) Credit 2. I and II.** Sacred and secular choral music, cantatas and oratorios — offered excellent practical opportunities for expression in part singing. A capella and accompanying singing. Participation required.

#### APPLIED MUSIC — INSTRUMENTAL

**Music 613, 923, 713, 723, 913, 823. (Music 613-823 Flute) (3-0) Credit 3.**

**Music 613, 623, 713, 723. (Music 613-723 Violin) (3-0) Credit 3.**

The following courses in Music may be taken as Individualized Instruction.

**MUSIC: 613P; 623P; 723P; 613V; 623V; 713V; 723V; 612C; 812C; 822C; 912C; 922C; 713E; 823E; 713V;**

#### THEORY

**653. Advanced Score Reading. (Music 653 Score Reading) (3-0) Credit 3.** Transportation and study of various clefs for instruments of all voices, ranges of instruments; introduction to the playing of voice and instrumental scores since the 10th century; practice in sight reading and studying such scores.

**673. Dictation and Sight-Singing. (Music 673 Dictation) (3-0) Credit 3.** Advanced courses in aural theory.

**693. Analysis of Form. (Music 693 Analysis) (3-0) Credit 3.** Practical analysis of intermediate and larger forms; eighteenth and nineteenth century harmony as illustrated in the works of Haydn, Mozart, Beethoven, Brahms, Franck, etc.

**763. Advanced Orchestration. (Music 763 Orchestration) (3-0) Credit 3.** Score for full symphony orchestra.

**783. Contrapuntal and Chromatic Dictation. (Music 783 Dictation) (3-0) Credit 3.** Dictation in two- and three-part counterpoint, and four-part chromatic harmony.

**793. Chromatic and Modern Harmony. (Music 793 Mod Harmony) (3-0) Credit 3.** Harmonic materials and technique from creative and analytical angles; harmonic idiom on the period from the late nineteenth century to the present.

**833. Advanced Orchestral Conducting. (Music 933 Conducting) (3-0) Credit 3.** Conducting from chamber music and classical symphonic scores; conducting from Romantic and Modern scores. Examination of school music materials and classical symphonic scores. Interpretation of the large forms of instrumental music.

**953. Advanced Analytical Harmony. (Music 953 Anal Harmony) (3-0) Credit 3.** Harmonic analysis of Chorales of Bach; piano sonatas of Beethoven, violin sonatas of Brahms and symphonic works of Mozart, Beethoven, Wagner and Franck.

# DIVISION OF SOCIAL AND POLITICAL SCIENCES

In the Division of Social and Political Sciences, graduate course work is available in social science geography, and psychology. Courses available support respective certification programs in teacher education. (See Teacher Education Programs) Psychology courses also support the Counselor Education Program.

## DESCRIPTION OF COURSES

### GEOGRAPHY

**603. Geography of Texas. (Geog 603 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 environment, routes of communication, resources and strategic location in their geographical and historical aspects. Optional field trips.

**613-623. Geography for Teachers. (Econ 613-623 Tchr Geog) (3-0) Credit 3. I and II.** The relationship of geography to other fields of knowledge concerned with man and his adjustments. The use of geographic premises underlying 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).

**703. Cartography and Graphics. (Geog 703 Cartography) (3-0) Credit 3.** Advanced statistical mapping techniques, with emphasis on the mapping of population and settlement. Measures of distribution. History of cartography.

**713-723. Geography in Education. (Geog 713-723 Tchng Geog) (3-0) Credit 3.** Analyzes the distinctive contribution of geography to education for citizenship on elementary and secondary levels. Discusses teaching sources and organization of materials, textbooks, and tests. Designed for teachers of geography, social studies, and related fields.

**733. World Regional Geography. (Geog 733 Regional) (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; regional types.

**803. Industrial and Commercial Geography. (Geog 803 Industrial) (3-0) Credit 3.** Fundamental geographic factors which enter into the production, distribution and consumption of raw materials of food, clothing, shelter, metals, minerals and fuels; fundamentals of manufacturing and principles of commerce.

### SOCIAL SCIENCE

**503. Social Studies in Secondary Schools. (Soc. Sci or Ed 833 HS Methods) (3-0) Credit 3.** Methods and devices for teaching History, Economics, Sociology and Political Sciences, as well as various social studies on the secondary level; selection and use of appropriate instructional materials.

**583. Social Studies in Elementary Grades. (Soc Sci 583 or Ed 763 Elem Methods) (3-0) Credit 3.** Improving the social learning which grows out of the entire life of children both in and out of school, selection and organization of content, learning activities, problem solving and social acting skills; building social values and developing methods of unified and correlated social studies program.

### PSYCHOLOGY

**513. Psychological Testing. (PSY 513 Psych Testing) (3-0) Credit 3.** Typical methods of measuring intelligence, achievement, special aptitudes, personality, vocational interest, individual and group behavior, and social and personal skills with emphasis on the interpretation and use of test.

- 523. Individual Testing. (Psy. 523 Indivi. Testing) (3-0) Credit. 3.** Analysis and techniques of individual assessment in guidance and counseling services.
- 533. Fundamentals of Statistics. (Psy 533 Statistics) (3-0) Credit 3.** Understanding and techniques of collecting, tabulating and computing statistical data from central tendency through variability, relationship, and the significance of difference among such measures.
- 553. Psychology of Adjustment. (Psy 553 Adjustment) (3-0) Credit 3.** A systematic treatment of the principles of the dynamic psychology of human adjustment. The whole individual and how he adjusts to the situation — both outer and inner — that confronts him are considered.
- 593. Pupil Growth and Development. (Psy 593 Pupil Growth) (3-0) Credit 3.** A study of the growth and development of the individual. Emphasis on problems of inheritance, growth, learning, intelligence, emotion, and personality. Consideration given to fundamental psychological needs of the organisms and the conditions under which they may be realized. Applications to educational procedure, on home, school and community.
- 603. Theory and Techniques of Counseling. (Psy 603 Theo Techni Counsl) (3-0) Credit 3.** Designed to provide the student with a perceptual framework specific to the counseling process through the study of counseling theory, analysis and interpretation of case data test results, and the analysis of the dynamics of counselor — counselee relationships.
- 733. Advanced Educational Psychology. (Psy 733 Adv. Educ Psych) (3-0) Credit 3.** This course is designed to give a critical examination of psychological concepts including a study of theories of learning and conditioning, the application of this phenomenon to the classroom setting and the understanding of identity crisis of the student.

## DEPARTMENT OF SOCIOLOGY AND SOCIAL WORK

### Sociology

Dr. Sarah Williams, Head

Majors and minors are offered in the Department of Sociology on the Graduate Level. Students desiring to major in Sociology should consult with the Head of the Department and plan a program in conjunction with the major professor. Students pursuing the M.A. degree should select their program of studies and the professor under whose direction they wish to prepare for examination and write their thesis as early as possible in the first semester of residence. The program of study and the area of thesis interest, to be approved by the Department of Sociology, must be filed before the end of the first semester or the summer after the entrance of the student into the graduate school of the University.

#### Requirements

Students who major in Sociology must present a minimum of 9 semester hours in undergraduate Sociology with substantial credits in History, Political Science or Economics. Students who have had fewer than 18 hours of Social Sciences will be required to complete additional undergraduate hours in Sociology before receiving a Master's Degree.

A major in Sociology is required to take at least 21 semester hours of course work in Sociology. A minor in Sociology is required to take a minimum of 9 hours in Sociology. Specifically required is Sociology 843 and Sociology 563.

#### Thesis

The satisfactory completion of a thesis, the subject of which is to be determined in consultation with the major professor, is required of all persons graduating with a major in this field. The candidate must pass a final oral examination on the thesis before the degree is conferred.

## DESCRIPTION OF COURSES

503. **American Social Welfare.** (Soc 503 Soc Welfare) (3-0) Credit 3. I or II. Historical development of social work as an institution. Fields of specialization, functions of agencies. Research papers tracing the development of specific areas of social work as required.
543. **Sociology of Urban Areas.** (Soc 543 Urban) (3-0) Credit 3. I or II. 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.
563. **Social Research.** (Soc 563 Research) (3-0) Credit 3. II. A study of the various methods of social investigation, such as the social survey, the case study methods, 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. Students are required to complete an individual piece of social investigation.
573. **Seminar.** (Soc 573 Seminar) (3-0) Credit 3. I or II. A consideration of sociological issues; classical and current investigations of social phenomena. Individual investigation of selected problems in the sociological aspects of behavior.
583. **Social Anthropology.** (Soc 583 Anthropology) (3-0) Credit 3. I or II. A study of the origin and development of human culture. Special emphasis is placed upon schools of culture and contemporary culture.
593. **Sociology of Education.** (Soc 593 Education) (3-0) Credit 3. I or II. Analyses of factors influencing the structures and function of the educational institution. Focus on the school as a social institution.
603. **Programs for Child Welfare.** (Soc 603 Child Welfare) (3-0) Credit 3. I or II. A study of child welfare movements and contemporary children's agencies and their services. Including programs for improving the home for substitute care, safeguarding health, employment protection, delinquency prevention, and other needs of children and youth.
614. **Socio-Psychological Aspects of Poverty.** (Soc 614 Poverty) (3-2) Credit 4. I or II. The sub-culture of poverty as an influence in producing one's self-image; the correlation of self-image with receptivity for learning; techniques for the school in re-directing self-images. Case studies of disadvantaged youth.
643. **Social Disorganization.** (Soc 643 Disorganiztn) (3-0) Credit 3. I or II. Analysis of the social process; the disorganization of the society and the individual.
664. **Sociology for Community Workers.** (Soc 664 Comm Work) (3-2) Credit 4. I or II. Analysis of the whole complex of social arrangements, group characteristics, traits and institutions that are concerned with rural living and go on to make up rural society. Emphasis on techniques for analyzing special social problems and utilizing social organization as a means of achieving program objectives. Students will be assigned studies of the social structures and social organization of the communities in which they work as a part of the laboratory offered with the course. Corpsmen will learn the dynamics of community involvement and imitate projects for the laboratory requirement.
683. **Sociology of Youth.** (Soc 683 Youth) (3-0) Credit 3. I or II. The culture of adolescence and youth in modern societies, with emphasis on Western Civilization's Youth roles as influenced by social, class and ethnic statuses. Youth and the influences of the family and other societal institutions.
693. **Criminology.** (Soc 693 Criminology) (3-0) Credit 3. I or II. 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.
700. **Individual Research.** (Soc 700 Research) Credit 3-6. I or II. Individual study and research on selected Sociological topics. May be repeated for credit up to 6 hours.
813. **Sociology of the Culturally Distinct.** (Soc. 813 Culturally Distinct) (3-0) Credit 3. I or II. A study of race and Ethnic Relations. The course deals basically with groups in the United States, but does deal with cross-cultural perspectives.

# COLLEGE OF BUSINESS

**Dr. Bernice Rollins, Dean**

The College of Business offers three graduate programs: the Master of Business Administration (MBA); the Master of Science (MS) in Business Education; and, the Master of Arts (MA) in Economics.

1. The Master of Arts (MA) degree is open to those students desiring a higher degree of specialization than is possible under the baccalaureate degree program. Students may obtain the MA degree in Economics.

2. The Master of Business Administration (MBA) degree is open to those who have a bachelor's degree in the arts, sciences, engineering, or law, or those who are changing their area of concentration in business. The program is designed to give professional practice in the fields of business, education for business and research, thus providing an effective foundation for a student's continued growth in any business endeavor or activity.

3. The Master of Science (MS) degree is available to students desiring to improve professional development as business teachers.

## CRITERIA FOR ADMISSION

In the determination of an applicant's eligibility for admission, the following measures are of critical importance:

1. Overall undergraduate grade-point ratio of 2.75.

2. Satisfactory scores on the Graduate Management Admission Test or the Graduate Record Examination.

Students who pursue a degree in Business Education or Economics should earn a satisfactory score on the Graduate Record Examination. Students who pursue the Master of Business Administration should earn a satisfactory score on the Graduate Management Admission Test.

## PROCEDURE FOR APPLYING

Students may enter the Master's degree programs at the beginning of any semester or summer term. An applicant should complete the requirements listed below at least four weeks prior to the beginning of the semester or term in which he wishes to enroll and meet the deadlines set forth in the calendar at the front of this catalog.

1. Obtain admission to the University and the Graduate School by filing the following items with the Dean of the Graduate School.

A. A complete official transcript of college and university credits.

B. Two completed application forms for admission to the Graduate School.

C. A completed application form for admission or readmission to the University.

2. Take the Graduate Management Admission Test (GMAT) for the Master of Business Administration.

3. Take the Graduate Record Examination for the Master of Science Degree or the Master of Arts degree.

**NOTE!** Information about the Graduate Management Admission Test (GMAT) and the Graduate Record Examination (GRE) may be obtained from the Admission's Office, Dean of the Graduate School, College of Business or from the Educational Testing Service, Princeton, New Jersey.

Undergraduate students who intend to enter a Master's degree program in the College of Business should take the appropriate tests in the final semester of their senior year. Those students enrolling under a non-degree permit to register (test score not on file) must take the appropriate graduate admission test during their first semester of enrollment. Note! A student admitted under non-degree admission is responsible for all obligations as outlined under the degree. If he or she changes to a degree plan, this student must complete at least 36 semester hours of course work after final admittance to the MBA program.

4. A permit to register issued by the Office of Admissions is required for registration. This permit does not constitute admission to the Graduate School or to a Master's program in the College of Business.

5. A formal degree plan constitutes acceptance to the College of Business. A student must adhere to the specifics of his or her degree plan. Degree plans will vary depending upon the student's undergraduate background and the conditions of admission.

#### RETENTION IN THE MASTER'S DEGREE PROGRAM

For retention into the Master's program a student

1. Must earn a grade of B in each course presented for graduation.
2. Must earn a grade point average of 3.00 or above in all course work pursued during a given semester.

#### ADMISSION TO CANDIDACY

Prior to or at the time of registration for his first semester of graduate study, the student must plan a tentative program under the direction of an appointed advisor. It is expected that a list of proposed courses will be filed with the College of Business and the Graduate Office before the next registration period.

Upon the completion of 12 semester hours of graduate credit with at least a "B" average, the student must submit a formal degree plan, through the College of Business, to the office of the Dean of the Graduate School. Failure to fulfill this requirement may prevent the student from enrolling the following semester or having credits considered for a degree.

Admission to candidacy is granted by the Dean of the Graduate School after the formal degree plan has been approved.

#### MASTER OF BUSINESS ADMINISTRATION (MBA)

The MBA (Master of Business Administration) program is open to qualified students who have undergraduate degrees in non-business areas as those having degrees in business or business related fields of specialization. The program is so structured as to be especially suitable for students whose baccalaureate degrees are in Science, Political Science, English, Sociology, Psychology, Engineering, Mathematics and Computer Science.

The MBA curriculum provides broad preparation for management with analytical techniques emphasized because of their importance in modern decision-making. The curriculum consists of courses which make up a common body of knowledge, and specific graduate courses designed to prepare the student for a career in management.

#### PREREQUISITES

A Bachelor's degree from an approved institution, including at least 24 semester hours in business administration courses, is needed for graduate standing. The Master of Business Administration degree program requires, as a minimum background, courses equivalent in content to those courses required of the undergraduate business major at Prairie View A&M University in the areas of:

	Semester Hours
Statistical Analysis	3
Accounting Principles	6
Finance	3
Principles of Management	3
Principles of Marketing	3
Principles of Economics	6

Graduate students should, if possible, remove any deficiencies by completing special courses at the 500-level which are designed for this purpose.

Considering the above prerequisites, students may pursue one of two plans:

**\*PLAN I**

48 Semester Hours

**Required Courses:**

Acct 503 Financial Accounting .....	3 hrs.
Acct 513 Managerial Accounting.....	3 hrs.
BA 553 Legal Environment .....	3 hrs.
BA 733 Business Statistics .....	3 hrs.
BA 783 Quantitative Analysis.....	3 hrs.
FI 583 Theory of Financial Mgt.....	3 hrs.
FI 593 Intro. to Finance.....	3 hrs.
MG 513 The Management Process .....	3 hrs.
MG 623 Problems .....	3 hrs.
MK 573 Marketing .....	3 hrs.
MK 603 Marketing Management.....	3 hrs.
Econ 713 Microeconomics .....	3 hrs.
Econ 723 Macroeconomics .....	3 hrs.
Electives to be selected in Management.....	9 hrs.

\*Suggested plan for MBA students with non-business undergraduate major or any student who fails to meet full admission standards.

**Plan II**

36 Semester Hours

**Required Courses:**

Acct 513 Managerial Accounting.....	3 hrs.
BA 733 Business Statistics .....	3 hrs.
BA 783 Quantitative Analysis.....	3 hrs.
FI 593 Theory of Financial Management .....	3 hrs.
MK 603 Marketing Management.....	3 hrs.
MG 523 Organizational Theory .....	3 hrs.
FI 603 Managerial Economics .....	3 hrs.
MG 623 Problems .....	3 hrs.
*Electives (one area of specialization).....	12 hrs.

NOTE! All MBA students must show evidence of having taken a course in Computer Science. This may be shown at the undergraduate level or by enrolling for BA 500. BA 500, however, will not serve to meet a major course requirement nor serve as an elective in either of the degree programs.

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

**MASTER OF SCIENCE (MS) in Business Education**

The graduate program in Business Education is designed to provide for the professional development of business teachers. The primary purposes of the program are to maintain and improve the quality of instruction at the secondary level, to provide innovative, creative approaches and practical procedures to curricular programs as well as to individual classes and to develop skills in the processes of problem-solving, decision-making, and research techniques.

The program is adapted to the needs of persons who have completed, as undergraduates, a course of study in Business Education or persons who have completed an undergraduate minor in Business Education.

The major in Business Education leading to the Master of Science degree consists of 30 semester hours and a thesis. The following courses are required:

Problems in Business Education .....	3 hrs.
Advanced Methods.....	3 hrs.

## COLLEGE OF BUSINESS

Curriculum Construction .....	3 hrs.
Statistics .....	3 hrs.
Seminar .....	3 hrs.
Business Electives .....	6 hrs.
Electives .....	9 hrs.

The minor in Business Education consists of 9 semester hours of which the following are required:

Problems in Business Education .....	3 hrs.
Seminar .....	3 hrs.

### MASTER OF ARTS (MA) in Economics

The graduate program in Economics is designed to permit intensive research and study in areas of the economy as they relate to local, national, and international scope.

Among the specific objectives are (1) development of ability to use available literature, facilities and techniques of investigation, (2) advancement of independent thought necessary for further study, and (3) experimentation and contribution to the field.

To major in economics, the student should present undergraduate credits of 30 semester hours in economics, business administration, mathematics, and/or other social sciences of which 15 should be in economics.

A major in Economics is required to take at least 21 semester hours of course work in Economics, and 9 semester hours of electives (taken in one area of specialization). An Economics major must write a thesis. The student must prepare a thesis proposal for approval by his committee at least 14 weeks prior to the close of the semester in which the student expects to receive his degree. The candidate must pass a final examination (oral) not less than two weeks before the date on which the degree is to be conferred.

For course sequence, or any other information, consult the Head of the Department and the professor offering the course.

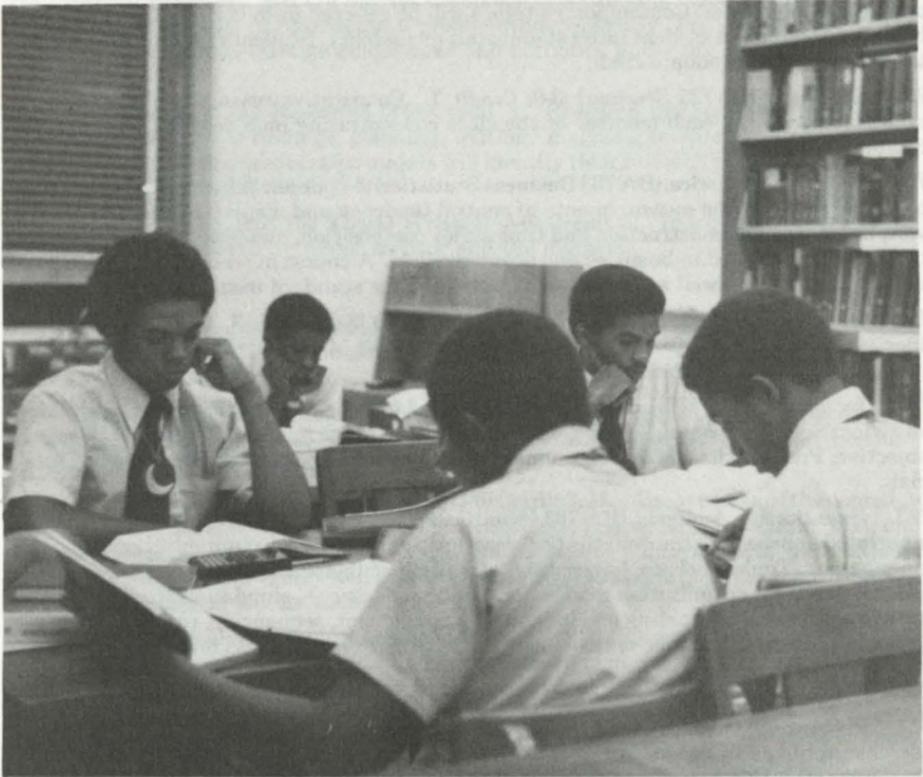
#### DEGREE REQUIREMENTS:

30 Semester Hours

Economics 713 Microeconomic Theory .....	3
Economics 723 Macroeconomic Theory .....	3
Economic Electives .....	15

May be selected from the following:

Economics 513 Economic History	
Economics 563 International Trade	
Economics 573 Labor Problems	
Economics 583 Economics Problems	
Economics 603 Money and Banking	
Economics 653 Economic Statistics	
Economics 693 Human Resources Development	
Economics 703 Public Finance and Taxation	
Economics 773 History of Economics Theory	
Electives (Should be in one area of specialization) .....	9



## DESCRIPTION OF COURSES

### ACCOUNTING

**503. Financial Accounting.** (Acct 503 Financial Accounting) (3-0) Credit 3. I. A survey of the fundamental concepts of financial accounting with special emphasis upon the interpretation and use of financial accounting data for evaluation and administrative purposes.

**513. Managerial Accounting.** (Acct 513 Managerial Accounting) (3-0) Credit 3. II. 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: AC 503.

### BUSINESS ADMINISTRATION

**500. Computer Application for Management.** (BA 500 Computer Application for Mgt) (1-2) Credit 3. I and II. 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.

**523. Issues and Trends.** (BA 523 Issues and Trends) (3-0) Credit 3. I or II. A study of current issues and trends in business and their influence upon the economy. Topics will vary.

**553. Legal Environment.** (BA 533 Legal Environment) (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.

**700. MBA Seminar (BA 700 MBA Seminar) (3-0) Credit 3.** The MBA seminar will be offered each semester. Contemporary topics will be selected from the functional areas of business based upon student interest and staff availability. Students may apply 3 semester hours toward graduate credit.

**723. Seminar. (BA 723 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.

**733. Business Statistics. (BA 733 Business Statistics) (3-0) Credit 3. I.** An evaluation and technical study of the measurements of central tendency and dispersion, sampling analysis, index number construction and time series composition, and specialized correlation techniques as applied to business and economic data. A course in reading and interpretation of statistics as well as one in construction of the standard measure.

**743. Directed Research. (BA 743 Directed Research) (3-0) Credit 3. I and II.** Involves special projects undertaken by the student, consisting of individual work suited to the needs and interests of the student.

**780. Internship. (BA 780 Internship) (0-6) Credit 1-6. I and II.** A supervised productive and educationally meaningful work experience in a job which relates to the student's career objective. Prerequisites: Meet requirement of employer and consent of Department Chairman.

**783. Quantitative Analysis. (BA 783 Quantitative Analysis) (2-1) Credit 3. I and II.** An integrated approach to the quantitative description and analysis of organizational operating systems. Topics include: forecasting, allocation of financial resources, planning long range objectives, optimization models for planning decisions, simulation studies, operating systems, sales forecasting and inventory management, sequencing, routing, queueing theory and its applications, management information systems, and information bases.

#### BUSINESS EDUCATION

**523. Problems in Business Education. (BE 523 Problems) (3-0) Credit 3. I.** An analysis of current problems in Business Education; trends and recent developments in this field; particular attention to problems related to the student's individual needs or interests and to means of problem solution.

**533. Advanced Methods of Teaching Business Subjects. (BE 533 Adv Methods) (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 to evaluating teacher effectiveness in Typewriting, Shorthand, Bookkeeping and Accounting. Basic Business Subjects and Distributive Education.

**543. Workshop in Business Education. (BE 543 Workshop) (0-3) Credit 3. I and II.** Emphasizes the development of current teaching methods and materials in Business Education. Group organization and planning, followed by the selection of projects for individual and group study. Lectures, demonstrations, committee work, individual conferences, etc.

**623. Curriculum Construction in Business Education. (BE 623 Curriculum Constr) (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.

**643. Improvement of Instruction in Skill Subjects. (BE 643 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.

**663. Methods of Teaching Basic Business and Economics. (BE 663 Methods of Tchg Basic Bus. and Econ) (3-0) Credit 3.** Methods of instruction, organization, and presentation of subject matter of basic business, economic education, and closely allied fields.

**693. Seminar. (BE 693 Seminar) (3-0) Credit 1-6. I and II.** 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.

**773. Special Problems.** (BE 773 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.

**783. Research.** (BE 783 Research) (3-0) Credit 3. Research methods and procedures, statistical treatment of findings, planning, writing, analyzing research and review of selected research. Business education majors will identify their research paper or thesis topic in this course and begin writing.

**793. Thesis Writing.** (BE 793 Thesis Writing) (3-0) Credit 3. Independent research on thesis problem approved by major advisor and the division.

## ECONOMICS

**501. Seminar in Economics.** (Econ 501 Seminar) (1-0) Credit 2. I or II. Informal discussion of Student Reports on Contemporary Socio-economic Problems facing the United States and the rest of the world.

**513. Economics History.** (Econ 513 Econ Hist) (3-1) Credit 3. I. Development of wage system, expansion of markets, Industrial Revolution, Industrial Development, Colonialism and Imperialism in Europe.

**563. International Trade.** (Econ 563 Trade) (3-0) Credit 3. II. Case studies of the contributions to international economic theory of Mercantilists, Hume, Smith, Ricardo, Mill, and others. Problem of balance of payments; Trade policies of major nations; International economic institutions in theory and practice. A study of the history of the forces shaping up the United States foreign economic policy.

**573. Labor Problems.** (Econ 573 Labor) (3-0) Credit 3. I. 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 movements and labor problems in newly emerging countries, relevance of western labor movement to developing nations.

**583. Economics Problems for the Consumer.** (Econ 583 Consumer) (3-0) Credit 3. II. Family budgets, marketing, price controls and other problems of the consumer.

**603. Money and Banking.** (Econ 603 Banking) (3-0) Credit 3. II. Major emphasis on the role of money in determination of prices, interests, sales, income and employment. Study of demand and supply of money. Effectiveness of monetary policy.

**643. Personnel Management.** (Econ 643 Persnl Mgmt) (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.

**653. Economic Statistics.** (Econ 653 Statistics) (2-2) Credit 3. I. Techniques of gathering, assorting, tabulating and presenting statistical data.

**693. Human Resources Development.** (Econ 693 Development) (3-0) Credit 3. I or II. The course includes: population growth, poverty, discrimination, migration, education, research and training. More detailed study of these topics and more emphasis in published research. The student will be asked to do his own investigation on one subject of this course. The course is oriented more toward research methods used.

**703. Public Finance and Taxation.** (Econ 703 Taxation) (3-0) Credit 3. Economics of Income Taxation; Economics of Business Taxation, Corporation and Special Business Taxes; Motor Vehicular Highway Taxes.

**713. Microeconomic Theory.** (Econ 713 Micro 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.

**723. Macroeconomic Theory.** (Econ 723 Macro Theory) (3-0) Credit 3. Classical Keynesian and Post-Keynesian aggregate income and employment analysis. Determination of price level and interest rate.

**743. Capitalism and Socialism. (Econ 743 Capitalism) (3-0) Credit 3. II.** Capitalism, unionism, socialism, facism, and individualistic anticapitalism, each viewed under the headings of conditions, theories and movements. A research course. Prerequisite: Economics 573, Sociology 313 and the consent of the instructor.

**773. History of Economics Theory and Social Policy. (Econ 773 Economic Thought) (3-0) Credit 3.** Development of Economics Analysis from the 17th century to the present, with emphasis on the economic role of the state and other institutions and the philosophical background of economic doctrines. Prerequisites: Consent of the Instructor.

## FINANCE

**583. Theory of Financial Management. (FI 583 Theory of Fin Mgt) (3-0) Credit 3. II.** 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; long-term external financing.

**593. Introduction to Finance. (FI 593 Intro to Finance) (3-0) Credit 3.** Corporate organization and control; security; the management of fixed capital and working capital and work capital reserve, surplus and dividend policies; investment banking and the securities market.

**603. Managerial Finance. (FI 603 Managerial Finance) (3-0) Credit 3.** Concerned with the managerial problems of the financial managers with the emphasis on financial analysis, current asset management, capital budgeting and capital structure.

**613. Investment Theory and Strategy. (FI 613 Invest. Theory and Strat.) (3-0) Credit 3. I and II.** Study of advanced portfolio management objectives and techniques. Analysis of new trends in security regulations. Criteria of measuring performance. Evaluation of risk in stock and bond markets.

**623. Financial Systems. (FI 623 Fin. Sys.) (3-0) Credit 3. I and II.** 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.

**633. International Finance. (FI 633 Inter. FI.) (3-0) Credit 3. I and II.** 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.

**643. Seminar. (FI 643 Seminar) (3-0) Credit 3. I and II.** Seminar in financial decisions. In-depth research in a selected field of corporate finance.

**653. Theory of Risk and Insurance. (FI 653 Theory of Risk and Ins. (3-0) Credit 3. I and II.** 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 viewpoint.

## MANAGEMENT

**503. Introduction to Behavioral Sciences in Business and Human Behavior in Business. (MG 503 Intro 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; organization structure, dynamics and change.

**513. The Management Process. (MG 513 Mgt Process) (3-0) Credit 3.** Examines major concepts, theories, and practices in management. Topics include theories of management, design of organization structures, human factors, decision theory and behavior, measurement and control. Develops knowledge of key aspects of the manager's role and provides framework for decisions and action. Prerequisite: MG 503.

**523. Organizational Theory. (MG 523 Organizational Theory) (3-0) Credit 3.** The theory of organization and human element of management within structures established to carry

out objectives of business enterprises. The course focuses on the systematic interrelation of economic, technological, psychological, and sociological variables which are useful in observing, predicting, and influencing the behavior of an organization. Prerequisites: MG 503, 513.

**533. Organizational Decision-Making. (MG 533 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: MG 503, MG 513.

**603. Management Information Systems. (MG 603 Mgt Information Systems) (3-0) Credit 3.** 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. Prerequisite: Nine (9) semester hours of graduate management.

**613. Management Strategy and Policy Formulation. (MG 613 Mgt Strategy and Policy) (3-0) Credit 3.** Examines top management strategy formulation, implementation, and evaluation characteristics of each function; diagnosis of illstructured problems from private and public sectors; use of analytical methods and models; and organizational change processes. Synthesis of functions involved in the planning and evaluation of strategy of major organization. Prerequisite: Twelve (12) semester hours of graduate management courses.

**623. Current Problems in Manpower Management. (MG 623 Manpower Mgt) (3-0) Credit 3.** Explores forecasting a firm's future manpower requirements, development of the necessary capabilities to meet these requirements, the theory of incentives, and the management of human resources.

**633. Problems. (MG 633 Problems) (3-0) Credit 3.** Explores problems of management, politics, and innovation in municipal agencies. Problems, policies, and operation of multinational corporations, including global logistic and production planning, alternative forms of ownership, personal policies for Americans and foreign nations, and organization and methods of control for widely dispersed, mixed ownership operations. May be taken on an independent basis.

## MARKETING

**573. Advanced Marketing. (MK 573 Adv Mkt) (3-0) Credit 3.** The application of quantitative and behavioral techniques to the strategic planning and evaluation of marketing systems.

**583. International Marketing. (MK 583 International Mkt) 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. Prerequisite: Mk 573.**

**603. Marketing Management. (MK 603 Marketing Management) (3-0) Credit 3.** A study of the marketing problems of a business: methods of demand creation, selection of channels of distribution, brand and price policies, new production development, methods of competition, and government legislation. Prerequisite: Mk 573.

**703. Seminar in Marketing. (MK 703 Seminar in Mkt) (3-0) Credit 3.** Intensive analysis of specific marketing problems with special emphasis on research methodology. A critical evaluation of research findings. Prerequisite: Nine (9) semester hours of Marketing.

# COLLEGE OF EDUCATION

H. G. Hendricks, Dean

The College of Education of Prairie View A&M University is strongly teacher-education oriented. As the objectives and scope indicate, a major goal of the educational program is to produce well-qualified and professionally education teachers. The program is geared to train teachers in those competencies and skills that will promote efficiency in their chosen vocation, as well as promote leadership, understanding, higher standards of family living, and devotion to the principles of democracy. The curriculum of the College of Education is divided into sections according to several areas of emphasis, as follows:

1. **Elementary Education and Early Childhood.** Upon satisfactory completion of this curriculum area, the student may be certified to teach grades 1-8 in the public school.
2. **Kindergarten or Early Childhood Education.** This Graduate program leads to an endorsement in kindergarten education are required for this endorsement.
3. **Special Education.** The course offerings in this area require the student to develop a basic program of study in Elementary Education as a pre-requisite to specialization in the special education program. By completing the curriculum offering of 12 semester hours in the area of Mental Retardation or 18 semester hours in the area of Language/Learning Disabilities, an endorsement is earned for either of the above disciplines. A major in Mental Retardation may be pursued also. Certification as Educational Diagnostician may be achieved upon the completion of 42 semester hours.
4. **Counselor Education.** This program is designed primarily for experienced teachers to give them competency as practitioners. The program constitutes the initial professional preparation for students desiring employment as counselors in public schools, vocational-technical schools, higher education institution, or non-educational agencies. Upon completion of the program, the graduate receives a professional certificate in counseling.
5. **Educational Administration and Supervision.** This program is dual in nature, in that public school teachers can choose a 45-hour or a 60-hour program, either for mid-management (Principal) certification, or for certification as Superintendent and professional administration. Graduate level only.
6. **Reading Specialist**
7. **Secondary Education**
8. **Educational Technology**
9. **Health, Physical Education, and Recreation**

## ADMISSION TO CANDIDACY

Action on admission to candidacy for a Master's Degree will be taken after the student (1) has been in residence for at least one semester or summer session, earning at least twelve hours of graduate course credit; (2) has maintained a "B" average or better; (3) proficiency in English usage.

The student failing to meet the above requirements will be continued on non degree status for a second semester. In the event he does not meet the requirements for candidacy at this time, it will be understood that no more graduate credits earned by him will be applicable to a Master's Degree.

In keeping with proposed changes in state standards for professional certificate programs, those having been admitted to degree and/or certificate programs since September, 1962 will be advised according to a schematic plan consisting of specialization, resources and professional areas of concentration. Courses and professional experiences may be suggested in terms of those areas and more specifically in accord with the specific needs of the graduate students. Specific requirements as to total hours for certificate and/or degrees will remain relatively the same as outlined.

Those seeking admission to graduate programs offered by the College of Education are urged to avail themselves of advisement by an appointed advisor in the appropriate department.

# DEPARTMENT OF EDUCATIONAL ADMINISTRATION AND SUPERVISION

**Dr. Louis Aikens, Head**

The Department of Administration and Supervision offers programs for completion of the Master of Science (MS) and Master of Education (M.Ed) degrees and is engaged in the preparation of its students for certification in the areas of educational administration and instructional supervision.

The certification programs are designed to prepare students for the principalship, central office administration, the superintendency, as well as instructional supervision. Students are prepared through the systematic orderings of courses and experiences, matched with the students' background and needs, but not to the exclusion of Texas Education Agency requirements.

## ADMISSION REQUIREMENTS

Admission to the department shall be considered complete when the following requirements have been met.

1. Admission to the Graduate School. Applications available at the office of the Dean of the Graduate School.
2. Completion of a degree plan and/or a checklist for certification requirements.
3. Development of a credentials file containing teaching certificate, service record, transcript, and two letters of recommendation.

To qualify for the MS or M.Ed degree, the student must complete the degree plan, and make a satisfactory score on the Master's Comprehensive Examination, scheduled in the fall, winter, and spring semesters.

## MASTER'S DEGREE PROGRAMS

### Master of Science

Students must complete 30 semesters hours to qualify for this degree. In addition to the 30 hours, an acceptable thesis must be completed.

### Master of Education

Students must complete a total of 36 semesters hours to qualify for this degree. This program includes the completion of a research project in the student's major field of concentration. To meet this requirement, all candidates are required to enroll in Education 843, Techniques of Research, and Education 853, Research Project.

## DEGREE PROGRAM IN INSTRUCTIONAL SUPERVISION

### Instructional Improvement (9 Semester Hours)

<b>Required Courses</b> (6 Semester Hours)	
Supervision 733 & 753 .....	6
<b>Elective Courses</b> (3 Semester Hours)	
Supervision 643 or 663	

Total Credit Hours 9

## COLLEGE OF EDUCATION

### Resource Area (21 Semester Hours)

<b>Required Courses</b> (6 Semester Hours)	
Psychology 593 .....	3
Education 823 .....	3
<b>Elective Courses</b> (15 Semester Hours)	
Education 583, 673, 683, 723, Administration 523, 713 .....	15 hrs.
<b>Total Credit Hours</b>	<u>21</u>

### CERTIFICATION PROGRAMS FOR SCHOOL ADMINISTRATION

The programs for Mid-Management and Superintendent's Certificates are designed to meet University and Texas Education Agency requirements. For the Mid-Management certificate, the student is required to complete a program of 45 semester hours, while the Superintendent's certificate requires 60 semester hours.

#### Mid-Management and the Superintendency

##### COMMON CORE (18 Semester Hours)

Administration 713, 743, 843, 853, 893 .....	15
Supervision 753 .....	3
<b>Total Credit Hours</b>	<u>18</u>

##### ACADEMIC AREA (9 Semester Hours)

<b>Required Courses</b> (6 Semester Hours)	
Education 823 Multicultural Education .....	3
Psychology 593 Pupil Growth and Development .....	3
<b>Elective Courses</b> (3 Semester Hours)	
Psychology 583, 533 or Sociology 583 .....	3
<b>Total Credit Hours</b>	<u>9</u>

##### SPECIALIZED PREPARATION — MID MANAGEMENT

<b>Required Courses</b> (12 Semester Hours)	
Administration 533, 633, 663, 733 .....	12 hrs.
<b>Elective Courses</b> (6 Semester Hours)	
Ind. Education 643 Organization and Administration Voc. Tech. Education .....	3
Supervision 643, 663 .....	3
Guidance 583, 683 .....	3
Spec. Educ. 603 Survey of Special Education .....	3
Education 633 Teaching Reading .....	3
<b>Total Credit Hours</b>	<u>18</u>

##### SPECIALIZED PREPARATION — SUPERINTENDENT

<b>Required Courses</b> (15 Semester Hours)	
Administration 523, 613, 703, 763, 833 .....	15
<b>Total Credit Hours</b>	<u>15</u>

## DESCRIPTION OF COURSES

### ADMINISTRATION

**523. School Personnel Administration. (Admin 523) Credit 3.** The administration of the school personnel services, standards and procedures of the personnel offices; supervision and evaluation of personnel records and policies.

**533. Secondary School Administration. (Admin 533) Credit 3.** To develop competencies in administration and instructional supervision of basic subject areas, with special emphasis on programs of special education, reading, vocational-technical career education.

**613. School Plant Administration. (Admin 613) Credit 3.** A study of educational facility needs, site selection, planning and design; outside professional services required in a building program; school buildings bonds; maintenance of individual school and district-wide schools.

**633. Elementary School Administration (Admin. 633) Credit 3.** A survey of problems in elementary school administration with emphasis on the organization, administration, and supervision of the elementary school.

**663. Administration of Special-Compensatory-Reading Career and Vocational Technical Education. (Admin 633) Credit 3.** To develop competencies in administration and instructional supervision of basic subjects, with special emphasis on programs of special compensatory education, reading career education, and vocational-technical education.

**703. School Finance. (Admin 703) Credit 3.** A study of the legal basis for financing public schools, fiscal planning, budget preparation and administration, use of the computer in business management.

**713. Fundamentals of Administration. (Admin 713) Credit 3.** An overview of educational administration; basic concepts of administrative theory and practice; the organization and control of the public school, and relationships between the various levels of government.

**733. Internship for Mid-Level Management. (Admin 733) Credit 3.** The practical application of insight developed through an analysis of administrative problems. A field experience cooperatively supervised by college representatives and practicing school administrators.

**743. Public School Law. (Admin 743) Credit 3.** An examination and study of legal principles as they apply to public education.

**763. Special-Career-Vocational-Technical Education. (Admin 763)** Designed to develop competencies in the administration of special education, career education, and vocational technical education.

**803. Public Relations for School Administration. (Admin 803) Credit 3.** The role of the administrator in school community relations. A study of the techniques used in communications and implementation of the public relations program. Topics of study to include reading programs, vocational technical education, special education, career education, compensatory education, and the multicultural aspects of the public school.

**833. Internship-Superintendents. (Adm 833) Credit 3.** The practical demonstration of competencies developed to enrich the administrator's training; emphasis on the work of the superintendent. A field-based experience cooperatively supervised by the college and practicing administrator.

**843. School Business Management. (Admin 843) Credit 3.** Management aspects of personnel, facilities, materials, equipment and fiscal affairs. Individual school units as they relate to district-wide management of fiscal affairs.

**853. Organization and Administration of Curriculum. (Admin 893) Credit 3. K-13.** A study of curriculum theory, development and implementation of compensatory and special education programs.

**893. Educational Administration, Theory and Practice. (Admin 893) Credit 3.** Theory of educational adaptability and change, analysis and study of staff relations for effective management of educational innovations. Student performs the role of administrator in simulated school system.

## SUPERVISION

**643. Elementary School Supervision. (Supervision 643) Credit 3.** Study of important developments in elementary education with particular attention given to methods and materials which may be used to improve the development of pupils in elementary schools. Problems which are encountered in day-to-day teaching situations receive much attention.

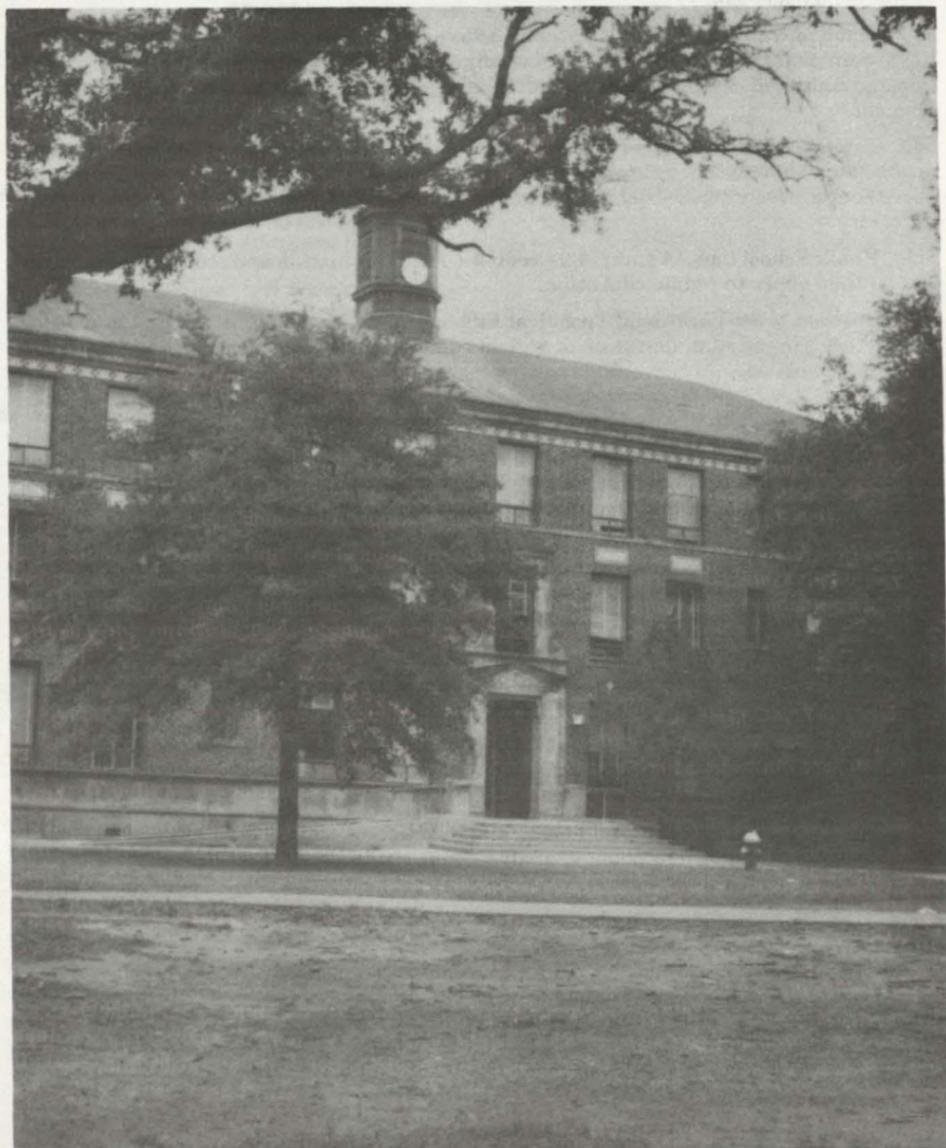
## COLLEGE OF EDUCATION

**663. Secondary School Supervision: High-School Supervision. (Supervision 663) Credit 3.** The nature and philosophy of supervision or the need for supervision, the activities of supervision, the promotion of teachers growth, and the appraisal of teaching efficiency in the high school.

**673. Trends in Supervision (Seminar). (Supervision 673) Credit 3.** Trends in the supervision of elementary and secondary public school with emphasis upon democratic practices related to objectives, content, materials, methods of planning and presenting lessons, evaluation of teaching as well as supervision and the development of skills in group dynamics.

**733. Practicum in Supervision. (Supervision 733) Credit 3.** The practical application of insights developed in the analysis and solution of supervisory problems. Experiences are to be cooperatively supervised by practicing supervisors.

**753. Principles and Practices of Supervision. (Supervision 753) Credit 3.** Principles, practices and problems of supervisory program, research in supervision and leadership.



# DEPARTMENT OF COUNSELOR EDUCATION

**Dr. Ernest Brooks, Head**

The Department of Counselor Education offers a program of study leading to a Master's Degree in Guidance. The department's focus is to incorporate a blend of academic knowledge, acquisition and enhancement of skills, and application in laboratory experiences. The program is designed to professionally prepare students to counsel and engage in guidance functions in public schools, vocational technical schools, community and other service agencies.

## DEPARTMENTAL ADMISSION REQUIREMENTS

In addition to the university requirements, one must have 3 recommendation checklists, adequate credit hours in professional education and psychology courses in general and a 2.8 cumulative undergraduate average from an accredited institution for unconditional admittance.

### Curricula and Program Options

Based upon the applicant's assessed needs, one may take pre-requisites to the area of concentration, or may begin formalized training in one of the following 36 semester hour curricula: (1) Guidance with emphasis in the Public School Setting; (2) Guidance with endorsement in Vocational Counseling; (3) Guidance with emphasis in Special Education.

The Department of Counselor Education offers two program options, with a degree in Guidance, in any of the above suggested curricula.

One, a Master of Education which requires thirty-six semester hours of course work. Included within the thirty-six hours is the completion of research project.

Second, a Master of Science requires a minimum of thirty-six semester hours, exclusive of a thesis, in courses approved for graduate credit by the department.

## PROFESSIONAL COUNSELOR'S CERTIFICATE

A student who completes requirements for a Master's degree in Guidance will have fulfilled all curriculum requirements for a Professional Counselor's Certificate. A student who desires the certificate, without fulfilling all degree requirements should check with the chairperson of Counselor Education for specific information. Usually such a student who is otherwise eligible can meet these requirements by completing 30 semester hours with three years of teaching experience.

## SUGGESTED CURRICULUM FOR A MAJOR IN GUIDANCE WITH PUBLIC SCHOOL ENDORSEMENT

Pre-requisites: Legal certificate valid for appropriate grade level served and three years of successful teaching experience on appropriate level.

Psychology 533	Fundamentals of Statistics . . . . .	3 hrs.
Psychology 513	Psychological Testing . . . . .	3 hrs.
Psychology 503	Theory and Technique of Counseling . . . . .	3 hrs.
Psychology 733	Advanced Educational Psychology . . . . .	3 hrs.
Psychology 593	Human Growth and Development . . . . .	3 hrs.
Guidance 713	Group Dynamics . . . . .	3 hrs.
Guidance 653	Career Dev. Theory, Voc., Occ., & Educ. Info. . . . .	3 hrs.
Guidance 683	Org. & Admin. of a Guidance Program . . . . .	3 hrs.
*Guidance 603	Supv. Pract. in Coun. & Guid. . . . .	3 hrs.
Education 823	Multi-Culture Education . . . . .	3 hrs.
Education 843	Tech. of Educ. Research . . . . .	
Education 853	Thesis or Project Research . . . . .	3 hrs.

\*Pre-requisites: (Guid. 683, Psy. 603, Psy. 593 or Psy. 733)

## COLLEGE OF EDUCATION

### SUGGESTED CURRICULUM FOR A MAJOR IN GUIDANCE WITH ENDORSEMENT IN VOCATIONAL COUNSELING

Pre-requisites: File Statement of qualification preceding entering the program through I. E. Department of Prairie View or the respective school Districts. Three years of wage earning work experience required.

I. E.	832	History and Principal of Vocational Educ. ....	3 hrs.
I. E.	833	Voc. Educ. Information. ....	3 hrs.
I. E.	813	Plan. & Org. Prog. of Voc. Guid. ....	3 hrs.
Psychology	533	Fundamentals of Statistics. ....	3 hrs.
Psychology	513	Psychological Testing. ....	3 hrs.
Psychology	733	Advanced Educational Psych. ....	3 hrs.
Psychology	593	Human Growth and Dev. ....	3 hrs.
*Guidance	603	Supv. Pract. in Coun. & Guid. ....	3 hrs.
Education	823	Multi-Culture Education. ....	3 hrs.
Education	843	Tech. of Educ. Res. ....	3 hrs.
Education	853	Thesis or Proj. Res. ....	3 hrs.
Psychology	603	Theory & Tech. of Counseling. ....	3 hrs.

36 hrs.

To complete Vocational Counselors Certification

I.E.	570	Selec. Placement & Follow-up in Voc. Educ. ....	3 hrs.
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\*Pre-requisite: (Guid. 683, Psy. 603, Psy. 593 or Psy. 733)

### SUGGESTED CURRICULUM FOR A MAJOR IN GUIDANCE WITH EMPHASIS IN SPECIAL EDUCATION

Psychology	533	Fund. of Statistics. ....	3 hrs.
Psychology	513	Psych. Testing. ....	3 hrs.
Psychology	603	Theory and Tech. of Counseling. ....	3 hrs.
Sp-Ed.	603	Surv. of Educ. of Excep. Children. ....	3 hrs.
Sp-Ed.	644	Psych. Prob. of Mentally Retarded Children. ....	3 hrs.
Guidance	713	Group Dynamics. ....	3 hrs.
Guidance	653	Career Dev. Theory, Voc. Occ., & Educ. Info. ....	3 hrs.
Guidance	683	Org. & Admin. of Guidance Program. ....	3 hrs.
*Guidance	603	Supv. Pract. in Coun. & Guid. ....	3 hrs.
Education	823	Multi-Culture Education. ....	3 hrs.
Education	843	Tech. of Education Res. ....	3 hrs.
Education	853	Thesis or Proj. Research. ....	3 hrs.

\*Pre-requisites: (Guid. 683, Psy. 603, Psy. 593, Psy. 733)

### SUGGESTED CURRICULUM FOR A MINOR IN GUIDANCE

Guidance	683	Org. and Adm. of Guid. Prog. ....	3 hrs.
Psychology	593	Human Growth & Dev.	
— or —			
Psychology	733	Adv. Educ. Psych. ....	3 hrs.
Psychology	603	Theory & Tech. of Coun. ....	3 hrs.
Guidance	603	Supv. of Pract. in Coun. & Guid. ....	3 hrs.

### PSYCHOLOGY

**513. Psychological Testing. (PSY 513 Psych Testing) (3-0) Credit 3.** Typical methods of measuring intelligence, achievement, special aptitudes, personality, vocational interest, individual and group behavior, and social and personal skills with emphasis on the interpretation and use of test.

**523. Individual Testing. (Psy. 523 Indivi. Testing) (3-0) Credit 3.** Analysis and techniques of individual assessment in guidance and counseling services.

**533. Fundamentals of Statistics. (Psy 533 Statistics) (3-0) Credit 3.** Understanding and techniques of collecting, tabulating and computing statistical data from central tendency through variability, relationship, and the significance of difference among such measures.

**553. Psychology of Adjustment. (Psy 553 Adjustment) (3-0) Credit 3.** A systematic treatment of the principles of the dynamic psychology of human adjustment. The whole individual and how he adjusts to the situation — both outer and inner — that confronts him are considered.

**593. Pupil Growth and Development. (Psy 593 Pupil Growth) (3-0) Credit 3.** A study of the growth and development of the individual. Emphasis on problems of inheritance, growth, learning, intelligence, emotion, and personality. Consideration given to fundamental psychological needs of the organisms and the conditions under which they may be realized. Applications to educational procedure, on home, school and community.

**603. Theory and Techniques of Counseling. (Psy 603 Theo Techni Counsl) (3-0) Credit 3.** Designed to provide the student with a perceptual framework specific to the counseling process through the study of counseling theory, analysis and interpretation of case data test results, and the analysis of the dynamics of counselor — counselee relationships.

**733. Advanced Educational Psychology. (Psy 733 Adv. Educ Psych) (3-0) Credit 3.** This course is designed to give a critical examination of psychological concepts including a study of theories of learning and conditioning, the application of this phenomenon to the classroom setting and the understanding of identity crisis of the student.

#### GUIDANCE

**603. Supervised Practice in Counseling and Guidance in the Secondary School. (Guid. 613 Supv Pract in Sec School) (3-0) Credit 3.** Supervised field experience in counseling and guidance in the secondary schools. A minimum of 90 clock hours in guidance experiences are required.

**613. Supervised Practice in Counseling and Guidance in the Elementary School. (Guid 613 Supv Pract in Elem School) (3-0) Credit 3.** Supervised field experience in counseling and guidance in the elementary schools. A minimum of 90 clock hours in the guidance experiences are required with emphasis on group counseling experiences.

**643. Foundations of Guidance and Counseling. (Guid 643 Found Guid and Couns) (3-0) Credit 3.** Introductory course in guidance and counseling. Survey of principles, philosophy, nature, and extent of guidance and counseling services.

**653. Career Development Theory and Vocational, Occupational, and Educational Information. (Guid 653 Car Dev Theo Voc Edu Inf) (3-0) Credit 3.** Theories of Career Development are studied to give the student an awareness of the bases of career choices, methods of evaluating, collecting, and assembling vocational and occupational information.

**683. Organization and Administration of a Guidance Program. (Guid 683 Guid Program) (3-0) Credit 3.** Emphasis is placed upon purposes and functions of guidance service; initiating organizing and promoting a guidance program; selecting, organizing and using adequate tools, techniques and physical facilities for guidance; developing and using evaluative procedures for a program of guidance; relationships, status and scope of the guidance program to the total school and community.

**713. Group Dynamics. (Guid 713 Group Dynamics) (3-0) Credit 3.** This course explores the basic types of groups, the nature of groups, group approaches to guidance, factors in group organization, the dynamics of group interactional processes, the effect of group sanctions and means of making group activities more effective. Practice in group facilitation and an investigation of "self" is offered.

**723. Problems in Group Processes and Guidance. (Guid 723 Problems in Guid) (3-0) Credit 3.** Individual concentrations and related facilitative skills in group guidance.

**773. Guidance in the Elementary School. (Guid 773 Guid Elem Schl) (3-0) Credit 3.** The unique aspects of elementary guidance — techniques of counseling, policies, career development needs — which differentiates it from guidance in other situations are examined.

863. **Thesis Seminar in Guidance.** (Guid 863 Thesis Sem in Guid) (3-0) Credit 3. Comprehensive study of the American Psychological Publication Style, the informational sources available in the development of a research proposal, and the drafting of a research proposal for the thesis.

873. **Thesis Research in Guidance.** (Guid 873 Thesis Research in Guid) (3-0) Credit 3. Implementation of procedures of the thesis, extensive literature perusal, tabulation of results and conclusions, and the final oral examination and publication of the thesis under individualized supervision.

## DEPARTMENT OF ELEMENTARY AND SECONDARY EDUCATION

Dr. Helen Miller, Acting Head

### Elementary Education

#### 1981-82 Faculty

Martha L. Bailey, Clarissa Booker, Lyda Boucher, Ross Clark, Billy Dade, Lucy McDonald Davis, Gwendolyn Grossman, Joe W. Harper, David Houston, Othelia McClendon, Alfred Roberts, LeRoy Weaver.

Public and Private Elementary Education Administers Programs designed for the professional preparation of teachers who plan to teach primarily in the Elementary Schools.

#### SUGGESTED CURRICULUM FOR A MAJOR IN ELEMENTARY EDUCATION

##### PREREQUISITES:

Legal certificate valid for teaching in the Elementary School or valid credits necessary for such an endorsement.

#### ACADEMIC SPECIALIZATION

Twelve (12) semester hours of graduate courses in a subject included in the public school curriculum in which the student has at least 24 semester hours undergraduate credit in a program for secondary teacher; 18 semester hours in a program for Elementary Teachers.

Education 523 — Principles and Practices of Educational Measurement.....	3 hrs.
Education 823 — Multi-Cultural Education.....	3 hrs.
Psychology 593 — Pupil Growth and Development.....	3 hrs.

#### RESOURCE AREA (9) Nine hours selected from the following list of courses:

Education 633 — Teaching of Reading.....	3 hrs.
Education 643 — Psychology of Reading.....	3 hrs.
Education 683 — Elementary School Curriculum.....	3 hrs.
Education 723 — Philosophy of Education.....	3 hrs.
Education 743 — Problems of Elementary Teachers.....	3 hrs.
Education 753 — Teaching of Language Arts.....	3 hrs.
Education 763 — Teaching of Social Studies.....	3 hrs.
Education 773 — Teaching of Science.....	3 hrs.
Education 883 — Teaching of Elementary Mathematics.....	3 hrs.

**RESEARCH (6)**

Education 843 — Techniques of Education Research.....	3 hrs.
Education 853 — Project and Thesis Research.....	3 hrs.
	—
<b>TOTAL</b> . . .	<b>36 Hrs.</b>

**SUGGESTED CURRICULUM FOR  
MINOR IN ELEMENTARY EDUCATION****PREREQUISITES:**

Psychology 593 — Pupil Growth and Development.....	3 hrs.
Education 633 — Teaching Reading in the Elementary School.....	3 hrs.
	—
<b>TOTAL</b> . . .	<b>6 hrs.</b>
Education 683 — Elementary School Curriculum.....	3 hrs.
Education 753 — Teaching of Language Arts.....	3 hrs.
Education 763 — Teaching of Social Studies.....	3 hrs.
	—
<b>TOTAL</b> . . .	<b>9 hrs.</b>

**SUGGESTED CURRICULUM FOR AN ACADEMIC  
SPECIALIZATION IN KINDERGARTEN EDUCATION****(Provisional Certificate)**

Kindergarten Education 623 — Development of the Young Child.....	3 hrs.
Kindergarten Education 813 — Kindergarten Methods and Material.....	3 hrs.
Kindergarten Education 823 — Seminar in Kindergarten Curriculum.....	3 hrs.
Kindergarten Education 833 — Trends in Early Childhood Education.....	3 hrs.
Kindergarten Education 863 — Practicum I In Early Childhood Education.....	3 hrs.
Kindergarten Education 873 — Practicum II In Early Childhood Education.....	3 hrs.
	—
<b>TOTAL</b> . . .	<b>18 hrs.</b>

**SUGGESTED CURRICULUM FOR A  
SPECIALIZATION IN SPECIAL EDUCATION****(Mentally Retarded)****PREREQUISITES:**

Psychology 593 — Pupil Growth and Development.....	3 hrs.
Education 523 — Principles and Practices of Educational Measurements.....	3 hrs.
Special Education 603 — Survey Course in Education of Exceptional Children.....	3 hrs.
Special Education 613 — Problems and Methods of Teaching Mentally Retarded Children.....	3 hrs.
Special Education 633 — Psychological Problems of Mentally Retarded Children.....	3 hrs.
Special Education 913 — Practicum I Curriculum Building for Mentally Retarded Children.....	3 hrs.

**SUGGESTED CURRICULUM FOR A SPECIALIZATION  
IN SPECIAL EDUCATION****(Language Learning Disabilities)****(Provisional Certificate)****PREREQUISITES:**

Psychology 593 — Public Growth and Development.....	3 hrs.
Education 523 — Principles and Practices of Education Measurements.....	3 hrs.
	—
	<b>6 hrs.</b>
Special Education 603 — A survey course in the education of exceptional children.....	3 hrs.
Special Education 833 — Diagnosis and precriptive techniques as applied to language learning disabilities.....	3 hrs.
Special Education 843 — Methods and materials in teaching children with learning disabilities.....	3 hrs.
Special Education 933 — Learning theory of exceptional children.....	3 hrs.
Special Education 943 — Language Problems of exceptional children.....	3 hrs.
	—
<b>TOTAL</b> . . .	<b>15 hrs.</b>

## DESCRIPTION OF COURSES

### GENERAL EDUCATION

523. **Principles and Practices of Educational Measurements.** (Educ 523 Educ Measrmt) (3-0) Credit 3. Typical methods of measuring intelligence, special aptitudes, and personality with emphasis on the interpretation and use of tests.

723. **Philosophy of Education.** (Educ 723 Philosophy) (3-0) Credit 3. Critical examination of prominent philosophies of education and their influence on practices in modern education.

733. **Comparative Education.** (Educ 733 Comparative) (3-0) Credit 3. (Elementary or Secondary Level) An international view of educational differences among countries; schools and other educational agencies in England, France, Germany, the USSR and other countries; their relations to social and political institutions and ideas; and a comparison with American education.

823. **Techniques in Educational Research.** (Educ 843A Research) (3-0) Credit 3. A study of the sociological and cultural problems related to the exceptional child and his adjustment to the main stream of society.

843. **Techniques in Educational Research.** (Educ 843 Research) (3-0) Credit 3. Study of research in education, the sources of information and techniques available, and approved form and style in preparation of research reports and thesis.

853. **Project and Thesis Research.** (Educ 853 Project) (3-0) Credit 3 to 6 Hrs. Prerequisites: Education 843 and advisor's approval for project or thesis study. Individual conferences and advisement on selection and preparation of research proposal or thesis study.

### ELEMENTARY EDUCATION

633. **Teaching Reading in the Elementary Grades.** (Educ 633 Tchg Reading) (3-0) Credit 3. Problems in the teaching of reading elementary, junior and senior high schools. Analyzing student needs, using appropriate remedial and developmental techniques, providing for individual differences and developing basic insights for continued growth of reading efficiency. (Graduate)

683. **Elementary School Curriculum.** (Educ 683 Elem Curr) (3-0) Credit 3. Study of important developments in elementary education with particular attention to methods and materials which may be used to improve the development of pupils in elementary schools. Problems which are encountered in day-to-day teaching situations receive much attention.

743. **Problems of the Elementary Teacher.** (Educ 743 Elem Prob) (3-0) Credit 3. Open to undergraduates who are teachers in in-service and to graduate students. Special projects, investigation and reports required; attention given to problems presented by members of the class as the outgrowth of their experiences.

753. **Teaching of the Language Arts in the Elementary School.** (Educ 752 Tchg Lang Arts) (3-0) Credit 3. For the interested in guiding and directing children of elementary school age in reading and in oral and written composition; special emphasis placed on diagnosis and remedial work in reading.

763. **Teaching of Social Studies in the Elementary Grades.** (Educ 763 Tchg Soc Stud) (3-0) Credit 3. Emphasis on improving the social learning which grows out of the entire life of children both in and out of school. Selection and organization of content, learning activities, problem-solving and social action skills, building social values and developing methods of unified and correlated social studies program.

773. **Teaching of Science in the Elementary Grades.** (Educ 773 Tchg Elem Sci) (3-0) Credit 3. Emphasis is placed upon the principles, materials and methods of teaching science, and its influence upon the development of children, in the elementary grades. Laboratory work is designed to help the teacher develop a background of science understanding with suitable experiments and suggestions for appropriate equipment and suitable materials for various age levels.

**883. Teaching of Elementary Mathematics.** (Educ 883 Tchng of Elem Math) (3-0) Credit 3. Derivation of appropriate methods and techniques for basic principles of learning; development of skills needed in cooperative planning; choosing and organizing teaching materials for elementary students.

#### KINDERGARTEN EDUCATION

**623. Development of the Young Child.** (Ked 623 Dev of the Chld) (3-0) Credit 3. An indepth study of growth and development during infancy and early childhood. Observation and analysis of the physical, mental and social characteristics of the young child; Strategies for developing self-discipline, creativity, and positive interrelationships are included. Psychosexual personality, normative-motivational, behavioral environment cognitive-transactional and humanistic are studied.

**813. Kindergarten Methods and Materials.** (Ked 813 Methods and Materials) (3-0) Credit 3. A study of selection and use of materials for curriculum and program organization, with application of alternative instructional strategies such as team teaching, problem solving, teacher directed and independent learning activities which include techniques and practice in self-evaluation.

**823. Seminar in Kindergarten Curriculum Development.** (Ked 823 Seminar in Kndgn Curr) (3-0) Credit 3. The seminar involved basic knowledge and practical experience in the curriculum development processes; updating content, exploring approaches to methodology; reviewing current research that suggested acceleration in various subject areas; identifying curriculum sources.

**833. Trends in Kindergarten Education.** (Ked 833 Trends in Early Childhood Educ) (3-0) Credit 3. Discussion and development of proficiencies in current trends in Early Childhood Education. A study is made of the philosophy; theoretical foundation; and new discoveries related to the area.

**863. Practicum I: Early Childhood Education.** (Ked 863 Kdgtm Practicum I) (3-0) Credit 3. This course is designed to provide strategies and techniques in evaluating pupil progress; to include direct observation; analysis and interpretation of data; response to interpersonal relationship in the classroom; characteristics of classroom groups; procedures in instruction and evaluation in parent education; making and using teacher made tests, as well as the use of standardized tests for early childhood.

**873. Practicum II Early Childhood Education** (Ked 873 Kdgtm Practicum II) (3-0) Credit 3. To provide extended experience in direct observation and laboratory experience in guiding young children's learning process; to include practices in clinical remediation, classroom management, innovate program practices, implementation, and evaluation; analysis of current techniques for teachers of young children; practical experience in working with parents; to include micro-teaching (media)

## Reading

#### Dr. Clarissa Booker

The program in Reading offers advanced courses designed to prepare teachers as reading specialists. Thus, the graduate student completing this program will be able to qualify for the Reading Specialist (All Levels) Professional Certificate. The student may also qualify for a Master's Degree in Elementary Education by taking, either simultaneously or as an addendum, the required courses in Elementary Education. The purpose of the Reading Specialist (All Levels) Professional Certificate Program is to prepare teachers, specialists, teacher educators, and researchers for service at various levels in the field of reading.

This program is designed to provide individual students the opportunity to improve professional competencies commensurate rate with either personal or professional goals as educators in the area of reading. Therefore, emphasis is placed upon assisting students in the areas of their recognized needs, and students are strongly encouraged to become involved in directed studies or individual research that will improve their professional competence. Specific characteristics of the Reading Specialist Certificate Program are as follows:

## COLLEGE OF EDUCATION

1. A minimum of 36 semester hours is required for the Master of Education Degree.
2. Twelve (12) of the required hours include academic specialization in reading courses.
3. Six (6) or more hours are taken in the resource area courses such as Multi-Cultural Education and Linguistics. Six (6) hours of electives are taken in related fields.
4. Six (6) hours of elementary education courses are taken by students who hold Secondary Certificates.
5. Students who have Elementary School Certificates take courses in secondary methods and the growth of adolescents.
6. Six (6) or more hours are taken in Research.

### READING SPECIALIST (ALL LEVELS)

#### PROFESSIONAL CERTIFICATE

##### Academic Specialization (12 Semester Hours)

Education 623 — Methods of Teaching Reading in the Elementary School . . . . .	3 hrs.
— or —	
Education 633 — Reading in the Elementary School . . . . .	3 hrs.
Education 653 — Reading in the Secondary School . . . . .	3 hrs.
Education 663 — Diagnosis and Correction of Reading Difficulties . . . . .	3 hrs.
Education 808 — Clinical or Laboratory Experiences in Reading . . . . .	3 hrs.
TOTAL . . . . .	12 hrs.

##### Resource Area

##### (6 or more semester hours)

##### Required (6)

Education 823A — Multi-Cultural Education . . . . .	3 hrs.
English 563 — Linguistics and the Teaching of Grammar . . . . .	3 hrs.

##### Electives (6)

Education 643 — Psychology of Reading . . . . .	3 hrs.
Education 683 — Elementary Curriculum . . . . .	3 hrs.
Education 753 — Teaching the Language Arts . . . . .	3 hrs.
TOTAL . . . . .	12 hrs.

##### Professional Development

##### (6 or more semester hours)

##### Professional Development (For Secondary School Certificate Holders)

Psychology 593 — Child Growth and Development . . . . .	3 hrs.
Education 623 — Methods of Teaching Reading in the Elementary School . . . . .	3 hrs.
— or —	
Education 633 — Reading in the Elementary School . . . . .	3 hrs.
TOTAL . . . . .	6 hrs.

##### Professional Development (For Elementary School Certificate Holders)

Psychology 593 — Growth and Developments Patterns of Adolescents . . . . .	3 hrs.
Education 593 — Methods of Teaching Secondary Reading . . . . .	3 hrs.
TOTAL . . . . .	6 hrs.

\*May be used as electives

##### Research

##### (6 or more semester hours)

Education 843 — Techniques of Research . . . . .	3 hrs.
Education 853 — Project and/or Thesis . . . . .	3 hrs.
TOTAL . . . . .	6 hrs.
GRAND TOTAL . . . . .	36 hrs.

**DESCRIPTION OF COURSES — Reading**

**531. Linguistics and the Teaching of Reading (Eng. 531-Ling.) (3-0) Credit 3.** The application of the linguistics approach to the teaching of reading at the elementary and secondary levels.

**573. Methods of Teaching Secondary School Subjects (Educ 573 HS Methods) (3-0) Credit 3.** General Methods treating the principles and practices of successful high school teaching.

**593. Human Growth and Development (Psy. 593) (3-0) Credit 3.** A study of the growth and development of the individual. Emphasis on problems of inheritance, growth, learning, intelligence, emotions, and personality. Consideration given fundamental psychological needs of the organisms and the conditions under which they may be realized. Applications to educational procedures on home, school and community.

**623. Methods of Teaching Elementary Reading (Educ 623 Read Elem Sch) (3-0) Credit 3.** An analysis of the various reading approaches and methodologies used in teaching reading in elementary grades.

**633. Reading in the Elementary School (Ed. 633) (3-0) Credit 3.** A detailed consideration of problems concerned with selection of content, grade placement of content, methods and materials of teaching, and means of evaluating achievement in reading.

**643. Psychology of Reading (Ed. 643 Psy) (3-0) Credit 3.** The nature of reading is explored with emphasis upon the sociological and psychological factors related to reading success and failure.

**653. Reading in the Secondary School (Educ 653 Sec Sch) (3-0) Credit 3.** Designed to provide a comprehensive understanding of basic instructional practices of trends in the secondary school. Includes determining instructional goals, selecting and organizing appropriate learning experiences, evaluation marking and reporting, classroom management, etc.

**663. Diagnosis and Correction of Reading Difficulties (Educ 663 Diag) (3-0) Credit 3.** A course designed to acquaint the student with diagnostic techniques and devices for identifying strengths and weaknesses and setting forth prescriptive techniques designed to strengthen weaknesses.

**693. Methods of Teaching Secondary Reading (Educ 693 Methods) (3-0) Credit 3.** An analysis of methods, materials, and trends in the teaching of reading in secondary grades.

**753. Teaching of the Language Arts in the Elementary School. (Educ 753 Tchg Lang Arts) (3-0) Credit 3.** For those interested in guiding and directing children of elementary school age in reading and in oral and written composition; special emphasis placed on diagnosis and remedial work in reading.

**803. Clinical or laboratory in Reading (Educ 803 Clinical & Lab) (3-0) Credit 3.** A consideration of case studies, seminars and field experiences in a public school context, consent and approved by instructor.

**823. Multicultural Education (Sociology 823) (3-0) Credit 3.** A study of multicultural aspects of public education and those it serves. Cultural understandings and sociological implications as they relate to the curriculum and organizational practices of public schools.

**843. Techniques in Education Research (Educ 843 Research) (3-0) Credit 3.** Study of research in education, the sources of information and techniques available, and approved form and style in preparation of research reports and thesis.

**853. Project and Thesis Research (Educ 853 Project) (3-0) Credit 3 to 6 hrs.** Prerequisites: Education 843 and advisor's approval for project or thesis study. Individual conferences and advisement on selection and preparation of research proposal or thesis study.

## Secondary Education

### 1981-82 Faculty

J. Timothy Ashford, Lloyd Boyden, Savannah Collier, Hulen Davis, Leon English, Charles T. Edwards, Dorisula Hawkins, Willa Hood, Barbara Jacket, Dorothy Kizer, Vera King, Jimmie Poindexter, Anasuya Rao, Seab Smith, Cecil L. Strickland, Theodis Shine.

Secondary Education administers programs designed for the professional preparation of teachers who plan to teach primarily in the secondary public and private schools.

The following teacher certification programs at the secondary level are available at the University.

### PROFESSIONAL PROGRAMS

#### Secondary Education (Plan I)

Biology  
Business  
Chemistry  
English  
Physical Education  
History  
Mathematics

#### Secondary Education (Plan II)

Social Studies Education

#### Secondary Education (Plan III)

Industrial Arts

#### Secondary Education (Plan II)

Business  
Social Studies — Economics  
Social Studies — Government  
Social Studies — History  
Social Studies — Sociology

### DESCRIPTION OF COURSES

**503. Principles of Secondary Education. (Educ 503 Prin Sec Ed) (3-0) Credit 3.** Development of Secondary School and its organization.

**583. Secondary School Curriculum. (Educ 583 Sec Curr) (3-0) Credit 3.** Principles of organizing and developing the high-school curriculum, analyzed in relationship to the "prescribed" and "teacher Made" course-of-study in individual schools. Various types of curriculum organization and the related teacher-pupil activities are studied in terms of community and pupil needs. Methods and materials of the related activities of the curriculum, aside from instruction, are given consideration.

**673. Methods of Teaching Secondary School Subjects. (Educ 673 H.S. Methods) (3-0) Credit 3.** General Methods treating the principles and practices of successful high-school teaching.

For secondary education courses that support specific teacher certification programs see course descriptions for biology, business, chemistry, English, physical education, history, mathematics, geography, economics, government history and sociology.

# Special Education

William Kendall

Special Education has as one of its responsibilities the preparation of teachers for classes of exceptional children in the areas of mental retardation, language/learning disabilities, and educational diagnostician. The program fulfills this responsibility by offering academic courses and practical clinical experience leading to Texas Certification in several areas. Students seeking certification in course areas in special education must certify by endorsement with either the elementary or secondary level.

## GRADUATE SCHOOL

### SUGGESTED CURRICULUM FOR A MAJOR IN SPECIAL EDUCATION (Teacher of Mentally Retarded Emphasis)

Prerequisites: Legal Certificate valid for the elementary school or appropriate level served.

Specialization (12) Hours	
Special Education 603 — Survey Course in Education of Exceptional Children . . . . .	3 hrs.
Special Education 613 — Problems and Methods of Teaching Mentally Retarded Children . . . . .	3 hrs.
Special Education 633 — Psychological Problems of Mentally Retarded Children . . . . .	3 hrs.
Special Education 913 — Practicum I — Curriculum Building for Mentally Retarded Children . . . . .	3 hrs.
Resource Area (12) Hours	
Ed. 683 — Basic Principles for Curr. Impv. in Elementary School . . . . .	3 hrs.
Ed. 753 — Teaching the Language Arts in the Elementary School . . . . .	3 hrs.
Ed. 763 — Teaching Social Studies in Elementary School . . . . .	3 hrs.
Soc. 823 — Multi-Cultural Ed. . . . .	3 hrs.
—or—	
Six (6) semester hours of related resource area experiences	
Supplement (6) Hours	
Education 843 — Technique in Educational Research . . . . .	3 hrs.
Education 853 — Project and Thesis Research . . . . .	3 hrs.
Professional (6) Hours	
Education 523 — Principles and Practices of Educational Measurement . . . . .	3 hrs.
Psychology 593 — Pupil Growth and Development . . . . .	6 hrs.

### SUGGESTED CURRICULUM FOR A MAJOR IN SPECIAL EDUCATION (Teachers of Learning Disabilities)

Sp. Ed. 603 — Education of the Exceptional Child . . . . .	3 hrs.
Sp. Ed. 833 — Diagnosis and Prescriptive Techniques . . . . .	3 hrs.
Sp. Ed. 843 — Methods and Materials . . . . .	3 hrs.
Sp. Ed. 933 — Learning Theory of Exceptional Child . . . . .	3 hrs.
Sp. Ed. 943 — Language Problems of Exceptional Children . . . . .	3 hrs.

#### RESOURCE AREA

Ed. 683 — Basic Principles for Curr. Impv. in Elementary School . . . . .	3 hrs.
Ed. 753 — Teaching the Language Arts in the Elementary School . . . . .	3 hrs.
Ed. 763 — Teaching Social Studies in Elementary School . . . . .	3 hrs.
Soc. 823 — Multi-Cultural Ed. . . . .	3 hrs.
—or—	
Six (6) semester hours of related resource area experiences	

#### SUPPLEMENT TO RESOURCE AREA (6) HOURS

Education 843 — Technique in Educational Research . . . . .	3 hrs.
Education 853 — Project and Thesis Research . . . . .	3 hrs.
Professional (6) Hours	
Education 523 — Principals and Practices of Educational Measurement . . . . .	3 hrs.
Psychology 593 — Pupil Growth and Development . . . . .	6 hrs.

### SUGGESTED CURRICULUM FOR A MAJOR IN EDUCATIONAL DIAGNOSTICS (Professional Certificate)

42 Hours

## COLLEGE OF EDUCATION

### KNOWLEDGE OF THE EXCEPTIONAL CHILD (9 semester hours)

Sp. Ed. 603 — Education of the Exceptional Child .....	3
Sp. Ed. 523 — Learning and Cognitive Development of the Exceptional Child .....	3
Sp. Ed. 533 — Communication Problems As They Relate to Exceptional Children .....	3
	<hr/>
	9

### KNOWLEDGE OF PSYCHOEDUCATIONAL AND OTHER DIAGNOSTIC PROCEDURES (9 semester hours)

Psy. 513 — Psychological Testing .....	3
Sp. Ed. 833 — Diagnosis and Prescriptive Teaching .....	3
Sp. Ed. 873 — Practicum in the Study of the Exceptional Child .....	3

### KNOWLEDGE OF HUMAN DEVELOPMENT (6 semester hours)

Ed. 593 — Human Growth and Development .....	3
Sociology 823 — Multi-Cultural Education .....	3

### KNOWLEDGE OF LEARNING THEORY (6 semester hours)

Sp. Ed. 933 — Principles of Learning for Exceptional Children .....	3
Psy. 583 — Psychology and Education of Exceptional Children .....	3

### KNOWLEDGE OF INSTRUCTIONAL MODIFICATION, REMEDIATION, TECHNIQUES AND MATERIALS (6 semester hours)

Sp. Ed. 863 — Curriculum Adjustment and the Exceptional Child .....	3
Education 643 — Instructional Strategies Appropriate for Exceptional Children .....	3
	<hr/>
	6

### RESEARCH (6 semester hours)

Education 843 — Techniques of Research .....	3
Education 853 — Project and/or Thesis .....	3
	<hr/>
	6

TOTAL 42 semester hours

### SUGGESTED CURRICULUM FOR A MINOR IN SPECIAL EDUCATION

Prerequisites: Psychology 593 — Pupil Growth and Development .....	3 hrs.
Psychology 523 — Principles and Practices of Educational Measurements .....	3 hrs.
Special Education 603 — Survey Course in Education of Exceptional Children .....	3 hrs.
Special Education 613 — Problems and Methods of Teaching Mentally Retarded Children .....	3 hrs.
Special Education 633 — Psychological Problems of Mentally Retarded Children .....	3 hrs.
Special Education 913 — Practicum I — Curriculum Building for Mentally Retarded Children .....	3 hrs.

### LEARNING DISABILITIES (Endorsement)

Sp. Ed. 603 — Educational of Exceptional Children
Psy. 593 — Pupil Growth and Development
Sp. Ed. 933 — Learning Theory and Exceptional Children
Sp. Ed. 943 — Language Problem of Exceptional Children
Sp. Ed. 833 — Diagnosis and Prescriptive techniques as applied to Language/Learning Disabilities
Sp. Ed. 843 — Methods and Materials

**MENTAL RETARDATION (Endorsement)**

- Sp. Ed. 603 — Introduction to the Education of Exceptional Children
- Sp. Ed. 633 — Psychological Problems of Mentally Retarded Children
- Sp. Ed. 613 — Problems and Methods of Teaching Mentally Retarded Children
- Sp. Ed. 913 — Curriculum Building for Mentally Retarded Children

**DESCRIPTION OF COURSES****SPECIAL EDUCATION**

**523. Learning and Cognitive Development of the Exceptional Child. (Sp Ed 523 Learning and Cognitive Dvmt of Ectp Child) (3-0) Credit 3.** A survey of contemporary theories of intellectual and cognitive development. Emphasis is placed on the work of Piaget, Sears, and recent research from culture and sensory loss, and problems related to cognition and its development in human beings.

**533. Communication Problems as They Relate To Exceptional Children. (SP Ed 533 Communication Problems) (3-0) Credit 3.** A study of communication barriers in speech and hearing, and language processes from the standpoint of communication; analysis of aphasia and other speech and hearing disorders; etiology, diagnosis, treatment, and implications for teaching and remedial measures.

**603. A Survey Course in the Education of Exceptional Children. (Sp Ed 603 Excep Child) (3-0) Credit 3.** Foundations for special education set forth; its history, philosophy, policy, case studies, measurements and guidance, selection, organization and qualifications of teachers.

**613. Problems and Methods of Teaching Mentally Retarded Children. (Sp Ed 613 Methods) (3-0) Credit 3.** Characteristics and needs of the mentally retarded child; principles of adapting the curriculum materials and methods of teaching to the needs of the retarded child.

**633. Psychological Problems of the Mentally Retarded Child. (Sp Ed 633 Psy Prob) (3-0) Credit 3.** A study of the emotional blocks to learning that affect the adjustment of youth who are mentally retarded.

**833. Diagnosis and Prescriptive Teaching (Sp Ed 833 Diag and Prescript Teachg) (3-0) Credit 3.** This course deals with problem solving and decision making strategies involved in effective educational planning for individual students classified as exceptional. Special attention is given to the interpretation of diagnostic information in relation to learner needs. Intensive case studies and the writing of educational prescriptions based on diagnoses of various types of disabled student needs are included.

**863. Curriculum Adjustment and the Exceptional Child. (Sp Ed 863 Curric Adj and the Excep Child) (3-0) Credit 3.** The course involves the adjustment of experiences, methods, materials, and equipment to meet the needs of exceptional children.

**873. Practicum in the Study of the Exceptional Child. (Sp Ed 843 Practicum) (3-0) Credit 3.** The Practicum provides supervised field centered practice for one semester in a public school setting. The experiences are centered around case and group studies. Emphasis is placed on the use of various formal and informal methods of appraising and communicating exceptional pupils' educational status and progress and designing appropriate remedial prescriptions. The emphasis includes identification of disabilities in cognitive, motor, sensory, language, social, or emotional growth. The student is supervised at the public school level by an experienced Educational Diagnostician.

**903. Laboratory. (Sp Ed 903 Laboratory) Credit 3.** Techniques of teaching the educable mentally retarded; analysis of materials, methods and specialized services along with an

evaluative approach; intensive practice in the curriculum center for teachers of the mentally retarded; field trips; study of observation centers and limited experimental studies.

**913. Curriculum Building for Mentally Retarded Children. (Sp Ed 913 Curr-Bldg) (3-0) Credit 3.** Basic philosophy and procedures of unit construction as applied to curriculum development; intensive review of foundations of mental retardation. Practical experience, theoretical and scientific concepts of mental retardation.

**923. Workshop. (Sp Ed 923 Workshop) Credit 3.** Designed to promote areas of professional growth of in-service teachers.

**933. Principles of Learning for Exceptional Children. (Sp Ed 933 Prin of Learn for Excep Childn) (3-0) Credit 3.** A survey of sensory and experiential deficits in exceptional children and an in depth study of the theoretical and empirical problems involved in sensory and perceptual remediation and compensatory programs. The course also involves a survey of contemporary theories and practices in the development of basic sensory discrimination and perceptual processes and the abnormalities of these processes manifested by exceptional children.

The courses listed below are graduate courses that can be applied toward the provisional certificate in language/learning disabilities.

**Psy. 593 Pupil Growth and Development. (Psy 593 Pupil Growth) (3-0) Credit 3.** A study of the growth and development of the individual. Emphasis on problems of inheritance, growth, learning, intelligence, emotions, and personality. Consideration given to fundamental psychological needs of the organisms and the conditions under which they may be realized. Applications to educational procedures on home, school and community.

**Sp. Ed. 603 A Survey Course in the Education of Exceptional Children. (Sp Ed 603 Excep Child) (3-0) Credit 3.** Foundations for Special education set forth; its history, philosophy, policy, case studies, measurements and guidance, selection, organization and qualification of teachers.

**Sp. Ed. 833 Diagnosis and Prescriptive Techniques as Applied to Language/Learning Disabilities. (Sp Ed 833 Diag & Prescript) (3-0) Credit 3.** The course will treat techniques of Diagnosis and prescriptions as they apply to language/learning disabilities. Modes of measurement and evaluation will also be treated.

**Sp. Ed. 843 Methods and Materials in Teaching Children With Learning Disabilities. (Sp Ed 843 Methods and Materials) (3-0) Credit 3.** Effective use of methods and materials in teaching children with language/learning disabilities.

**Sp. Ed. 933 Learning Theory and Exceptional Children. (Sp Ed 933 Learn Theory and Excep Child) (3-0) Credit 3.** Learning theories as applied to both the typical and atypical student. An in depth approach to the disabilities with which the student is confronted in his attempt to comprehend cognitive aspects of learning.

**Sp. Ed. 943 Language Problems of Exceptional Children. (Sp Ed 943 Lang Prob Excep Child) (3-0) Credit 3.** An overview of speech pathologies, followed by individual tapes of exceptional public school pupils with speech, cleftpalate speech, articulatory problems, lisping, baby talk, nasality, etc. When possible, children with speech problems will be brought to the laboratory workshop.

## Educational Technology

Dr. Marion Henry

The graduate program in Educational Technology is designed for Librarians (All-Level Learning Resources Specialist) at the public school level who are desirous of becoming knowledgeable in the theories and practices of newer concepts of Libraries (Learning Resources Centers — LRC, Media Centers — MC, Instructional Materials Center — IMC, etc.).

This program is designed to develop those competencies which will enable the Librarian (Learning Resources Specialist) to (1) assume the professional responsibilities of a Learning Resources Specialist and understand cognitively and practically contemporary

aspects of Librarianship, and (2) become an effective practitioner in information-transfer process in a wide variety of contexts.

The major in Educational Technology leading to the Master's degree consists of thirty (30) semester hours plus thesis.

### SUGGESTED CURRICULUM FOR A MAJOR IN EDUCATIONAL TECHNOLOGY

Educational Technology 500 — Practicum .....	3 hrs.
Audio Visual Education 503 — Audio Visual Materials in Instruction ...	3 hrs.
Educational Technology 523 — Children and Young Adult Literature ...	3 hrs.
Psychology 533 — Fundamentals of Statistics .....	3 hrs.
Educational Technology 533 — Reference and Bibliography .....	3 hrs.
Psychology 593 — Pupil Growth and Development .....	3 hrs.
Educational Technology 623 — School Media Centers .....	3 hrs.
Educational Technology 633 — Instructional Design and Development ..	3 hrs.
Educational Technology 653 — Local Production of Instructional Materials .....	3 hrs.
Educational Technology 733 — Psychology of Human Learning .....	3 hrs.
Educational Technology 743 — Utilization, Cataloging, and Dissemination of Materials .....	3 hrs.
Educational Technology 753 — Advanced Local Production of Instruction Materials .....	3 hrs.
Sociology 823 — Multicultural Education .....	3 hrs.
Education 843 — Techniques in Educational Research .....	3 hrs.
Administration 853 — Curriculum K-12 .....	3 hrs.
Education 853 — Project and Thesis Research .....	3-6 hrs.

### DESCRIPTION OF COURSES

**500. Practicum. (ET 500 Practicum). Maximum Credit 3.** Identifying current trends in managing Media Centers and interfacing of practical experience with theoretical and scientific concepts in a public school setting.

**503. Audio Visual Materials in Instruction. (Audio 503 Materials). (3-0) Credit 3.**

**523. Children and Young Adult Literature. (ET 523 Literature). (3-0) Credit 3.** Advance study for librarians and teachers with books and materials for children and young people. Planned to provide for wide reading of books and magazines and examinations of printed and non-printed materials.

**533. Reference and Bibliography. (ET 533 Reference). (3-0) Credit 3.** Introduction to basic reference sources by subject, i.e. education science, music, etc., and how to locate information effectively. An appraisal of reference materials, correct reference methods, and how to conduct a reference interview.

**533. Fundamentals of Statistics. (Psy 533 Statistics). (3-0) Credit 3.** Understanding the techniques of collecting, tabulating, and computing statistical data from central tendency through variability, relationship and the significance of differences among such measures.

**593. Pupil Growth and Development. (Psy 593 Pupil Growth). (3-0) Credit 3.** A study of the growth and development of the individual, emphasis on problems of inheritance, growth, learning, intelligence, emotion and personality. Consideration given to fundamental psychological needs of the organism and the conditions under which they may be realized. Application to educational procedures, on home, school and community.

**623. School Media Centers. (ET 623 Media Centers). (3-0) Credit 3.** Study of the philosophy and objectives of school library and media centers; factors to consider in planning and developing a media center. Consideration of interpretation of media centers; administration problems in technical services professional literature.

**633. Instructional Design and Development (ET 633 Design). (3-0). (3-0). Credit 3.** Developing of competencies related to translating general and theoretical knowledge about learning and instructions into specification for instructional materials, devices, or settings.

**653. Local Production of Instructional Materials. (ET 653 Production). (3-0) Credit 3.** The development of competencies related to translating specification for instructional materials into prototype, final version and/or mass-produced products.

**733. Psychology of Human Learning. (ET 733 Human Learning). (3-0) Credit 3.** Study of learning theories as they are related to human growth and behavior; strategies for teaching and learning within the life space of the individual, recognizing the home and the total community as contributing elements in the individual's education.

**743. Utilization, Cataloging, and Dissemination of Materials. (ET 743 Cataloging). (3-0) Credit 3.** Development of competencies that are related to informing students/teachers about instructional materials and how they may be used in the learning process. These competencies incorporate obtaining, cataloging and distributing materials and devices.

**753. Advanced Local Production of Instructional Materials. (ET 753 Advanced Production). (3-0) Credit 3.** Instruction in photography, sound, television and graphs, application to the development of educational materials.

**823. Multicultural Education. (Socio 823 Multicult Ed). Credit 3.** A study of the sociological and cultural factors related to the adjustment of the individual within a Multiracial, Multiethnic, and Multicultural societal setting.

**843. Techniques in Educational Research. (Educ 843 Research). (3-0) Credit 3.** Study of research in education, the sources of information and techniques available, and approved form and style in preparation of research reports and thesis.

**853. Curriculum K-2. (Admin 853). Credit 3.** A study of curriculum theory, development and implementation of compensatory and special education programs.

**853. Project and Thesis Research. (Educ 853 Project). (3-0) Credit 3 to 6.** Prerequisites: Education 843 and advisor's approval for project of thesis study. Individual conferences and advisement on the selection and preparation of research proposal or thesis study.



# DEPARTMENT OF HEALTH & PHYSICAL EDUCATION

Dr. Leroy Moore, Head

## REQUIREMENTS FOR MASTER OF SCIENCE DEGREES IN PHYSICAL EDUCATION

Students with undergraduate major or minor in Physical Education will be required to complete additional courses designed to give them competence in the areas of subject matter that are basic to this field. A demonstration of skill in teaching a wide variety of Physical Education activities is required. Courses listed below are prerequisite courses:

### I. Basic Science:

#### A. Minimum

1. Zoology ( or its equivalent)
2. Anatomy
3. Physiology

### II. Health Education Courses:

#### A. Minimum (choice of two)

1. Personal Hygiene
2. Principles of Health Education
3. Methods of Health Education
4. Health Education

### III. Technical Training in Physical Education

Organization and Administration of Physical Education . . . . .	3 hrs.
Methods and Materials in Physical Education . . . . .	3 hrs.
Kinesiology . . . . .	3 hrs.
Care and Prevention of Athletic Injuries of First Aid . . . . .	2 hrs.
Tests and Measurements in Physical Education . . . . .	3 hrs.
Coaching . . . . .	3 hrs.
Modern Dance, Folk Dance, or Gymnastics . . . . .	3 hrs.

## PHYSICAL AND HEALTH EDUCATION

Prerequisites for a graduate major will ordinarily consist of not less than 30 semester hours of undergraduate credits in the chosen field or in some related field. A graduate minor will ordinarily be based upon not less than 12 semester hours of undergraduate work.

If the transcript of the undergraduate record of a student does not meet the above qualifications, additional satisfactory undergraduate work will be required before the student is admitted to graduate status.

It should be clearly understood that admission to the graduate school does not imply admission to candidacy for a degree.

Courses for which graduate credit may be obtained are numbered above 500. A minimum of 21 prescribed hours and a thesis are required.

### Graduate courses required for a major in physical education

623. Physiology of Muscular Exercises . . . . .	3 hrs.
633. Advanced Tests and Measurements in Physical Education . . . . .	3 hrs.
653. Administrative Problems in Physical Education . . . . .	3 hrs.
703. Seminar I — Techniques of Research in Physical Education . . . . .	3 hrs.
713. Seminar II — Thesis . . . . .	3 hrs.
723. Kinesiology . . . . .	3 hrs.
733. Supervision in Physical Education . . . . .	3 hrs.
753. Scientific Foundation of Physical Education . . . . .	3 hrs.
763. Physical Education Curriculum . . . . .	3 hrs.
613. Individual Physical Education . . . . .	3 hrs.
593. Psychology of Motor Learning . . . . .	3 hrs.
693. Teaching Physical Education . . . . .	3 hrs.

## GRADUATE MINOR IN PHYSICAL EDUCATION

653.	Administrative Problems in Physical Education . . . . .	3 hrs.
733.	Supervision in Physical Education . . . . .	3 hrs.
753.	Scientific Foundation of Physical Education . . . . .	3 hrs.
763.	Physical Education Curriculum . . . . .	3 hrs.

## DESCRIPTION OF COURSES

593. **Psychology of Motor Learning.** (PE 593 Psych of Motor Learning) (3-0) Credit 3. I or II. Learning process in motor skills as the foundation of teaching methods in physical education activities; practical experience in testing theories.
613. **Individual Physical Education.** (PE 613 Indiv PE) (3-0) Credit 3. I or II. Making a physical education program meet the needs of handicapped individuals; fundamental principles in the selection and adoption of activities in corrective procedure; abnormal physical conditions that come to the care of reports. Prerequisites: Physical Education 314 and 323.
623. **Physiology of Muscular Exercises.** (PE 623 Exercise) (3-0) Credit 3. Effect of exercise upon bodily functions and effects of special types of exercises upon body function.
633. **Tests and Measurements.** (PE 633 Test Measmt) (2-1) Credit 3. Tests available in the field for the various situations from elementary school to college. Use of various Anthropometric and strength test instruments.
653. **Administrative Problems in Physical Education.** (PE 653 Adm Probms) (3-0) Credit 3. I or II. Coordination of the different phases of the program; administrative problems of physical education, intramural and intercollegiate athletics.
693. **Teaching Physical Education.** (PE 693 Tchg PE) (3-0) Credit 3. I or II. A study of traditional and innovative teaching techniques in physical education as well as the practical application of teaching styles.
703. **Seminar I — Techniques of Research in Physical Education.** (PE 703 Seminar I). Techniques used in physical education research; historical, philosophical, descriptive (observation, questionnaire, interview, job analysis), experimental and comparative methods; methods of preparing bibliographies, of selecting and defining thesis problems. This course must be taken during the first twelve hours of graduate work. (Credit 3).
713. **Seminar II — Thesis.** (PE Seminar II). Guidance in thesis writing; analysis of data, presentation of thesis topics in seminar groups for discussion and criticism. To be taken after thesis data have been gathered or with the consent of the instructor. (Credit 3).
723. **Kinesiology.** (PE Kinesiology) (2-1) Credit 3. I. Musculature and bone structure of the body in relation to the science of movement, joint mechanism and muscle action with special application to athletes and training.
733. **Supervision in Physical Education.** (PE 733 Supervision). Study of principles and tools of educational supervision and their application to physical education. (Credit 3).
753. **Scientific Foundation of Physical Education.** (PE 753 Foundation) (3-0) Credit 3. Principles taken from biology, sociology, psychology, anatomy and physiology, basic to the teaching of physical education.
763. **Physical Education Curriculum.** (PE 763 Curriculum) (3-0) Credit 3. Study of activities, aims, objectives and outcomes as they relate to courses of study and their construction; development of a course of study for the student's own particular situation.

## REQUIREMENTS FOR A GRADUATE MINOR IN HEALTH EDUCATION

A program of Health Education may be arranged for students seeking a graduate minor.

A prerequisite of six semester hours of undergraduate work in Health Education is required of all persons seeking a graduate minor in this field. Personal Hygiene and Community Hygiene are normally accepted for this requirement; however, equivalent courses will be considered. In the case of students with unusual preparation or experience in specific areas related to the health field, an exception may be made with reference to the above requirements after consultation with the departmental advisor.

A program totaling not less than 12 semester hours will be arranged in consultation with the departmental adviser. The following two courses will be required of all students. Other courses may be selected to meet the needs and interest of the student.

### REQUIRED COURSES

Health Education 683.	Community Planning for Health	3 hrs.
Health Education 693.	Teaching of Health	3 hrs.

The student may select any of the following courses to complete the requirement of 12 semester hours:

Health Education 693.	Contemporary Health Problems	3 hrs.
Health Education 663.	Health Care of Children	3 hrs.
Health Education 673.	Nutrition and Health	3 hrs.
Health Education 901.	Environmental Sanitation	1 hrs.
	Laboratory (or) Workshop in Health Education	1 to 6 hrs.
Psy. 563.	Mental Hygiene	3 hrs.

### SAFETY EDUCATION

Education 543.	Safety Education	3 hrs.
Auto 503.	Drivers Education and Training	3 hrs.

### DESCRIPTION OF COURSES

**543. Safety Education. (Hlth 543 Safety Educ) (2-2) 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 agencies outside of schools.

**563. Mental Hygiene. (Hlth 563 Mental Hyg) (3-0) Credit 3.** Examining and interpreting procedures for protecting and preserving the mental health of the individual through wholesome adjustment to the environment; attention is given to practicing mental hygiene in the classroom.

**583. Contemporary Health Problems. (Hlth 583 Hlth Prob) (3-0) Credit 3. I or II.** A study of the natural and man-made destructive forces in society; recognition of emerging problems such as population expansion, radiation, urbanization, water supply, energy crisis, accident hazards and their effects upon man's health, as well as other health problems confronting rural populations.

**663. Health Care of Children. (Hlth 663 Hlth Care) (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 and protection against common diseases, speech disorders, play habits and skills, first aid, and use of community resources.

**673. Nutrition and Health. (Hlth 673 Nutrition) (3-0) Credit 3.** Essentials of an adequate diet; the food for persons of different ages, and the nutritive values of common food materials; special concern given regarding the relationship of nutrition and health education; materials from various agencies, diet surveys and projects.

**683. Community Planning for Health. (Hlth 683 Cmty Plng) (3-0) Credit 3.** Community structure, resources and organization in the promotion of healthy living; social, economic, political and educational aspects of community health problems.

**693. Teaching of Health. (Hlth 693 Tchg Hlth) (3-0) Credit 3.** Principles, materials, methods and resources in teaching health in elementary and secondary schools.

**901. Environmental Sanitation. (Hlth 901 Sanitation) (3-0) Credit 1.** One-week Institute on environmental sanitation offered as a part of the Training Laboratory in Health Education or can be taken separately. Sponsored jointly by the College and the Texas State Department of Health.

**903-906. Health Education Training Laboratory or Workshop in Health Education. (Hlth 903-906 Hlth Lab) (2-2) or (3-6) Credit 3 or 6.** Training Laboratory in Health Education sponsored jointly by the University and the State Department of Health. Provisions made for students to participate in a variety of procedures for investigating, analyz-

ing and evaluating community action programs in health; local schools and communities are used as a laboratory in studying problems.

#### PROFESSIONAL COURSES IN PHYSICAL EDUCATION

633. **Tests and Measurements.** (PE 633 Test Measmt) (2-1) Credit 3. Tests available in the field for the various situations from elementary school to college. Use of various Anthropometric and strength tests instruments.

613. **Individual Physical Education.** (PE 613 Indiv PE) (3-0) Credit 3. I or II. Making a physical education program meet the needs of handicapped individuals; fundamental principles in the selection and adoption of activities in corrective procedure; abnormal physical conditions that come to the care of reports.

623. **Physiology of Muscular Exercises.** (PE 623 Exercise) (3-0) Credit 3. Effect of exercise upon bodily functions and effects of special types of exercise upon body inflation.

653. **Administrative Problems in Physical Education.** (PE 653 Adm Probms) (3-0) Credit 3. I or II. Coordination of the different phases of the program; administrative problems of physical education, intramural and intercollegiate athletics.

723. **Kinesiology.** (PE 723 Kinesiology) (2-1) Credit 3. I. Musculature and bone structure of the body in relation to the science of movement, joint mechanism and muscle action with special application to athletes and training.

733. **Supervision in Physical Education.** (PE 733 Supervision) Credit 3. Study of principles and tools of educational supervision and their application to physical education.

## Professional, Laboratory, Clinical and Field-Based Experiences

### C. F. Randle, Head

This program offers no degrees, certificates, or endorsements. The head of this program coordinates all Laboratory and Field-based Experiences. These experiences include the following:

1. Student Teaching
2. Observation experiences
3. Practicums
4. Internships
5. Simulation experiences
6. Field-based seminars and workshops
7. Executing contracts with student teaching centers
8. Implementation of Senate Bill # — Student Teaching
9. Placement of student teachers and interns in approved centers.
10. Working cooperative with the state coordinator, district coordinators and department heads in the implementation of the total programs.
11. Coordination of the activities of campus and field-based supervisors.

# COLLEGE OF HOME ECONOMICS

**Dr. Flossie M. Byrd, Dean**

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

Majors may be taken in Home Economics Education and General Home Economics. Minors may be taken in Education, Administration and Supervision, Home Economics Education and General Home Economics.

Twenty (20) semester hours or more are required for major, and (10) semester hours or more are required for a minor for the Master of Science Degree. Six additional hours, including the Master's Essay are required for the Master of Education Degree. Consult the Dean or major professor for additional information.

For the general requirements for admission to candidacy, residence, course requirements, transfer of credit, quality of work, thesis, and application for the Master's Degree, apply in the College of Home Economics. The student is urged to refer to the graduate bulletin for all desired information.

## DESCRIPTION OF COURSES

### GENERAL HOME ECONOMICS COURSES

**513. Studies in Home Management. (HE 513 Home Mgmt) (3-0) Credit 3.** A review of management studies, trends in the field and research related to home management. Topics for consideration based upon student needs and interests. Special consideration to such problems as tension and fatigue, physically handicapped, management problems of homemakers employed outside of home, leisure time, and the ages. One major paper required. Abstracts of research studies due weekly.

**523. Conceptual Frameworks of Parenting: Fatherhood. (HE 523 Parent: Fatherhood) (3-0) Credit 3.** Addresses itself to the latest research and skills known on 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.

**533. Functional Clothing. (HE 533 Clothing) (3-0) Credit 3.** The latest clothing construction techniques for men, women and children's clothing; speed and custom methods for gaining personalized fit; teaching clothing by focusing on its functional qualities.

**553. Family Life Problems. (HE 553 Family Life) (3-0) Credit 3.** A study of effects of parenthood, sibling and intergeneration relationships on family solidarity; an analysis of current forces influencing attitude and behavior; review and analysis of current literature related to human development and interpersonal relationships within the family; exploration of current and emerging factors in marriage and family life. One major paper required. Other projects adapted to special needs and interest of students.

**563. Consumer Economics. (HE 563 Consumer Econ) (3-0) Credit 3.** Consumer problems including credit; an analysis of buying practices and problems in securing household commodities; consideration of the consumer's viewpoint of the market; a study of home economists' responsibility as representatives of consumers. Special projects based upon students' needs and interests.

**583. Methods and Techniques of Child Study. (HE 583 Child Study) (3-0) Credit 3.** A study of a variety of methods and techniques, both projective and non-projective, for studying children; analysis of procedures in the selection and development of data collection techniques useful in child development research; consideration of such methods as motion pictures, plays, creative activities, direct observation, interviews, questionnaires, rating methods and projective techniques as a means of considering children's needs and guidance. Experience in development and use of selected techniques.

## COLLEGE OF HOME ECONOMICS

- 603. Perspectives in Food and Nutrition. (HE 603 Fd-Nutr Perspectives) (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.
- 703. Seminar in Nutrition. (Fds 703 Seminar) (3-0) Credit 3.** Review and interpretation of selected materials from the scientific literature in nutrition; state, national, and international nutrition problems in nutrition; emphasis on recent advances in nutrition science. Individual assignments and reports; abstract writing.
- 713. Problems in Costume Design. (Clo 713 Costume Dsgn) (0-6) Credit 3.** Draping, pattern making and design for students with adequate background. Lab. fee: \$2.00.
- 733. Seminar in Foods. (Fds 733 Seminar) (3-0) Credit 3.** Review and interpretation of selected materials from the literature in foods; emphases on recent advances in food technology and experimentation; state, national and interpretation of selected materials from the literature in foods; emphasis on foods; implications for teaching at secondary level. Individual assignments and reports; abstract writing.
- 753. Clothing Seminar. (Clo 753 Seminar) (3-0) Credit 3.** A study of the production and consumption of clothing and textiles as related to social science theories; an analysis of clothing behavior of individuals and groups in the United States and other societies. Special related topics may be considered with permission of the instructor.
- 763. Problems in Home Economics. (HE 763 Problems) (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.
- 773. Advanced Clothing for Graduate Students. (Clo 773 Adv Clothing) (3-0) Credit 3.** Advanced problems in garment construction; experimental approach to the study of factors influencing evaluation of construction techniques. Construction of children and adult garments.
- 803. Draping and Construction. (Clo 803 Draping) (3-0) 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 and styles. Construction of the draped garment.
- 813. Child Development Curriculum. (HE 813 Child Dvlp) (3-0) Credit 3.** A study of modern curriculum approaches in the Nursery School; an analysis of program innovations resulting from research findings and developmental projects. A study of objectives, program organization, content and teaching materials.
- 883. Personal and Family Finance. (HE 883 Fmly 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.
- 913. Problems of Youth. (HE 913 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.

## HOME ECONOMICS EDUCATION

- 512, 522, 532, 543, 552, 562, 572, 582, 592, Workshop. (HE Ed 512, 522, 532, 542, 552, 562, 572, 582, 592 Workshop). Credit 2.**
- 523. Research Problems. (HE Ed 523 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; needed research in home economics. Abstract writing. One major paper required.
- 543. Advanced Methods. (HE Ed 543 Adv Methods) (3-0) Credit 3.** A study of newer trends in teaching home economics with specific emphasis on the concept approach as applied to home economics substantive materials and teaching for generalizations; an anal-

ysis 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.

**573. Thesis Research. (HE Ed 573 Thesis) (3-0) Credit 3.** Thesis and research. Registration with permission of chairman of graduate committee. Individual conferences and guidance.

**593. Home Economics Curriculum. (HE Ed 593 Curriculum) (3-0) Credit 3.** Clarification of the philosophy and objectives of home economics and the relationship to the home economics program and community; an analysis of techniques for cooperative program planning based upon student, home and community needs; sociocultural foundations of the home economics curriculum; significant research and vocational education legislation related to organization, content and techniques; study of emerging programs in home economics. Development of curricula for use in individual situations. Selection of area and topic with instructor's permission.

**613, 633, 653, 663. Workshop. (HE Ed 613, 633, 653, 663 Workshop) Credit 3.**

**643. Adult Education. (HE Ed Adult Educ) (3-0) Credit 3.** A study of organizing, administering and planning adult programs; emphasis on methods and materials for teaching adults; evaluation of research and instruction in adult education; supervision of programs; consideration of new programs derived from vocational education legislation. One major paper is required.

**723. Measurement. (HE Ed 723 Measurement) (3-0) Credit 3.** A study of the basic concepts of measurement and evaluation; consideration of standards appropriate to evaluating the achievement of educational goals; an analysis of the use of measurement in improving instruction and providing a basis for guidance. Experience in construction of varied evaluative instruments. One major paper based upon problems experienced in individual situation. Approval of problem by instructor required.

**793. Supervision. (HE Ed 793 Supervision) (3-0) Credit 3.** Principles of supervision as applied to home economics education programs, teaching and learning; analysis of leadership functions, program effectiveness, and supervision.

**843. Techniques in Educational Research. (HE Ed 843 Research) (3-0) Credit 3.** Action research in home economics education. Students conduct small research studies designed to improve classroom techniques and procedures. A written report of a study is required. Required of Master of Education degree candidates.



# COLLEGE OF INDUSTRIAL EDUCATION AND TECHNOLOGY

Dr. Samuel R. Collins, Dean

In the College of Industrial Education and Technology, advance work is offered leading to the Degree of Master of Science and the Master of Education in the field of Industrial Education.

Prerequisite to graduate work in these fields, is the completion of a four-year curriculum from a College or University of recognized standing, substantially equivalent to that required of undergraduates in the College of Industrial Education and Technology. Students desiring to do graduate work who do not have the necessary prerequisites will be required to make up all deficiencies as directed by the Dean of the College of Industrial Education before they will be permitted to begin graduate courses.

To qualify for the Master's Degree with a major in Industrial Education at least fifteen (15) semester hours of the total required must be in courses offered to graduate students only. Also, all students will be required to take a course in Industrial Education 763 — Research and Thesis Writing.

## Course Requirements—

1. A minimum of thirty semester hours, exclusive of thesis, with an average grade of "B," or better, in courses approved for graduate credit, is required for the degree of master of Science.

In addition to the thirty semester hours in graduate courses all candidates for the degree of Master of Science must present an acceptable thesis on a subject germane to the major course of Study.

2. Thirty-six semester hours of course work are required for the degree of Master of Education.

The student in pursuit of a Master of Education degree must perform satisfactorily on a written comprehensive examination. This examination is provided for each candidate for the degree during his final semester in which all course requirements are met. This examination is related to the over-all objectives of the major program. Its purpose is to identify and evaluate each candidate's knowledge and understanding.

For advanced work in the College, good library facilities and laboratory equipment are provided to carry out the work suggested. Certain research problems may be made available in cooperation with other departments of the university.

## DESCRIPTION OF COURSES

### AUDIO-VISUAL EDUCATION

503. **Audio-Visual Materials in Instruction.** (Audio 503 Materials) (2-2) Credit 3. I and II. The improvement of learning and teaching through the effective use of Audio-Visual instructional materials; operational procedures for all types of Audio-Visual equipment.

513. **Administration and Supervision of Audio-Visual Education.** (Audio 513 Administration) (3-0) Credit 3. I. Emphasis on the supervision of budget and planning of an audio-visual program — for teachers appointed as audio-visual coordinators in their schools, as well as for principals, classroom teachers and students planning a teaching career.

523. **Preparation of Graphic Materials.** (Audio 523 Graphic Matl) (1-6) Credit 3. II. Emphasis on the construction of audio-visual materials for classroom teaching. Basic production techniques as audio-visual material for various teaching areas. Lab. fee: \$2.00.

543. **Laboratory in Audio-Visual Materials.** (Audio 543 Laboratory) (1-6) Credit 3. II. Practical experience in the mechanical manipulation of the various audio-visual materials and devices. Includes mechanical theory of materials and equipment.

**DRIVER EDUCATION**

**503. Driver Education and Traffic Safety II. (Dr Ed 703 Traffic II) Credit 3. I, II.** This course is primarily devoted to methods of teaching, and traffic safety needs of secondary schools. Laboratory experience in teaching beginners to drive in dual control cars; psycho-physical testing, teaching materials and procedures, state laws and regulations. (Approved Certification Course).

**703. Driver Education and Traffic Safety II. (Dr Ed 703 Traffic II) Credit 3. I, II.** This course is primarily devoted to methods of teaching, and the administration of high school driver and traffic safety education. (Approved Certification Course). Prerequisites: D.E. 303 or 503.

**513. Motorcycle Safety & Instruction. (DE 513) Credit 3.** This course deals with classroom and laboratory instruction. Laboratory phase is designed to develop safe operational habits and skills, and involves organizing and administering a motorcycle rider and safety program in the public schools. Lab. fee: \$3.00.

**523. Motorcycle Instruction & Methods. (DE 523) Credit 3.** Rider experience, skill development, service and maintenance procedure methods of instruction, and organization and administration of a motorcycle rider and safety program in public schools. Lab. fee: \$3.00.

**723. Driver and Traffic Safety Education III. (DrEd 723) Credit 3. I and II.** This course will involve multi-phase instruction including simulation, multi-car driving ranges, and multi-media classroom techniques and procedures. Teachers will receive actual experience in the use of the equipment and facilities involved in the above phases of instruction.

**783. Supervision of Driver and Traffic Safety Education. (Dr Ed 783) Credit 3. I and II.** This course includes philosophy, principles, practices of supervision, with special emphasis on role playing, group dynamics, problem solving, program scheduling, evaluation of teaching performance, and supervision of non-degree teaching personnel (teaching assistants).

**INDUSTRIAL EDUCATION**

**IE 500. Shop Organization and Classroom Management. (IE 500 Organization) (2-0) (3-0) Credit 2 or 3. I and II.** A minimum of 45 clock hours required. Effective organization of vocational classes and management of shops and laboratories for efficient instruction; discussion of factors and principles pertaining to good roll-keeping, reporting systems, grading, record-keeping, and attendance; factors, guidelines and procedures; purchasing, receiving, and storing materials and supplies; safety consciousness and accident prevention; teacher liability; eye protection laws of Texas; heating, lighting, ventilation and sanitation; the shop library; managerial duties and responsibilities of class members. Persons enrolling for 3 semester hours credit will be required to prepare research paper.

**IE 510. Development, Organization and Use of Industrial Instructional Materials. (IE 510 Instr Materials) (2-0) (3-0) Credit 2 or 3. I and II.** A minimum of 45 clock hours required. Acquiring skills and techniques in developing and preparing instructional materials; proper preparation and use of instruction sheets and lesson plans; materials that meet specific needs; evaluation of existing instructional materials; organizing instructional materials for effective teaching; adopting information from industry into information sheets; constructing lesson plans and instruction sheets. Persons enrolling for 3 semester hours credit will be required to prepare research reports.

**523. Tests and Measurements in Industrial Education. (IE 523 Test Measrmt) (3-0) Credit 3. II.** Sources of instructional testing and evaluating materials; construction and use of test and evaluating devices; administering, scoring, recording and interpreting tests, progress charts, diagnosis of difficulties, analysis of teaching problems as related to evaluation.

**533. Instructional Methods in Industrial Education. (IE 533 Methods) (3-0) Credit 3. I.** Study of methods, devices, techniques as applied to teaching industrial subjects; analysis and evaluation of student learning difficulties and teaching responsibilities in industrial classes; also study of the nature, preparation and use of instruction sheets.

**540. Occupational Analysis and Course Making. (IE 540 Course Making) (2-0) (3-0) Credit 2 or 3. I and II. A minimum of 45 clock hours required.** The meaning of analysis and its value in course making; analyzing occupations for teachable content; reviewing systems of analysis, adaptation of principles of fit individual teacher needs; making course outlines for occupational areas; study of organization of courses of study; preparation and development of segments of courses of study for specific occupational areas. Persons enrolling for 3 semester hours of credit will be required to prepare research reports.

**542-3. Occupational Analysis and Course Making. (IE 542-3 Course Making) (2-0) (3-0) Credit 2 or 3 (45 clock hours.)** Analyzing various vocational occupations for teachable content for training purposes; study of analysis techniques developed by various leaders of vocational education; study of related content information and its place in occupational analysis; study of principles of analysis and course making; organization and development of courses of study to fit individual teachers' specific needs.

**563. The General Shop. (IE 563 General Shop) (3-0) Credit 3. II.** The general shop organization, its contribution to attainment of cardinal objectives of the modern high school, current practices as to type of shops, equipment, instructional materials and procedures.

**570. Selection, Placement, and Follow-up in Vocational Education. (IE 570 Placement) (2-0) (3-0) Credit 2 or 3. I and II. A minimum of 45 clock hours required.** A study of factors that affect selection, advisement, work opportunities, and educational objectives of young people; techniques of counseling and advisement; selection of training stations; cooperative and working relationships with industry; on-the-job training; follow-up and coordination; advisory committees, related study materials, child labor laws and regulations, wages and hour laws. Persons enrolling for 3 semester hours credit will be required to prepare research reports.

**580. Human Relations for Vocational Industrial Teachers. (IE 580 Human Relations) (2-0) (3-0) Credit 2 or 3. I and II. A minimum of 45 clock hours required.** The meaning of democracy; the roles of governments concerning human rights; the changing social order; the nature of the individual; behavior patterns; human relations factors; interpersonal relations; intergroup communication; experiences in human relations; principles of human relations. Analysis of consumer expenditures, population, personal income distribution, family budgets, price controls and other problems affecting the consumer. Persons enrolling for 3 semester hours credit will be required to prepare research reports.

**583. Industrial Arts for the Elementary School. (IE 583 Elem Sch Art) (2-0) Credit 2. I and II.** A course designed for teachers, supervisors, principals of elementary schools. Fundamental concepts, philosophies of Industrial Arts in the elementary school; function and scope, organization, administration, activities and methods of teaching Industrial Arts on the elementary level.

**IE 590. Problems in Cooperative Training. (IE 590 Problems) (2-0) (3-0) Credit 2 or 3. I and II. A minimum of 45 clock hours required.** Review of duties of the teacher-coordinator; discussion of probable solutions of specific problems; fundamental standards of cooperative training; determining training needs of the community; techniques of conference leadership in seeking solutions to problems of the instructional program; techniques and principles of guidance and counseling; related study materials; placement of trainees; advisory committees; organization and coordination of on-campus training classes; child labor laws and regulations; wages and hour laws. Persons enrolling for 3 semester hours credit will be required to prepare research reports.

**603. Workshops and Institutes in Industrial Education. (IE 603 Workshop) Credit 3. I and II.** A study of the development of solutions for problems in Industrial Education.

- A. Cosmetology Institute
- B. Industrial Arts Teacher Workshop
- C. Vocational-Industrial Teachers Workshop
- D. Administrators Workshop
- E. Electricity-Electronic

**700. Administration and Supervision of Industrial Arts Education. (ID 700 Administration) (2-0) (3-0) Credit 2 or 3. I.** How to organize, supervise and administer functioning programs of Industrial Arts; the duties of a supervisor and director of Industrial Arts;

special problems of supervision and administration of Industrial Arts; relationships to local, state and federal education authorities, correlating Industrial Arts with other phases of education.

**720. Thesis in Industrial Education. (IE 720 Thesis) (2-0) (3-0) (4-0) Credit 2, 3, or 4.** Conferences and advisement in relationship to the selection and preparation of an acceptable thesis for the Master of Science Degree. Prerequisite: I.E. 763.

**IE 733. Philosophy and Objectives of Vocational Education. (IE 733 Philosophy and Objectives) (3-0) Credit 3. (45 clock hours).** Fundamental concepts, beliefs, principles, and assumptions regarding vocational education; the relationship of its objectives of general education; its economic, social, and educational values; different phases of vocational education; Federal and State laws; its place and justification in the total scheme of modern education.

**743. The History of Industrial Education. (IE 743 History) (3-0) Credit 3. II.** A survey of the early movements, experiments and writings concerning leaders of the United States and European countries. Intensive study of developments in Industrial Education since 1850. A comparative study of leaders, movements, institutions and literature in the field of Industrial Education.

**753. Practicum and Industrial Education. (IE 753 Practicum). Maximum credit 3 hours.** Development of current problems are reflected through the merging of practical experience with theoretical and scientific concepts.

**763. Research and Thesis Writing. (IE 763 (research) (3-0) Credit 3. I and II.** Required of all majors in Industrial Education. Methods and techniques of research writing and reporting. Designed especially for students who are to write thesis or lesser reports.

**783. Problems in Industrial Education. (IE 783 Problems) (3-0) Credit 3. I and II.** Conferences and advisement in selection and preparation of an acceptable term paper or essay. Prerequisite: I.E. 763.

**843. Methods and Media in Teaching Vocational Subjects (I.E. 843 Methods and Media in Tehng). (3-0) Credit 3.** Overview of various media used to improve instruction and methods for using audio-visual materials effectively in teaching vocational subjects. General production techniques are emphasized.

**853. Seminar in Vocational Guidance (I.E. 853 Seminar Voc. Guid.). (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.

#### VOCATIONAL COURSES REQUIRED FOR CERTIFICATION AS A VOCATIONAL COUNSELOR

**IE 573. Placement and Follow-up in Vocational Education. (IE 573 Placement) (3-0) 3 sem. hrs. credit.** 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.

**IE 813. Planning and Organizing Program of Vocational Guidance. (IE 813 Org) (3-0) 3 sem. hrs. credit.** Purposes and functions of a guidance program. Group guidance procedures. Components of a vocational guidance program. Techniques of providing vocational guidance services for elementary and secondary students and adults.

**IE 823. History and Principles of Vocational Education. (IE 823 Principles) (3-0) Credit 3.** The historical development of vocational education. The objectives of vocational education. Types of vocational programs services, and activities.

**IE 833. Occupational and Vocational Education Information. (IE 833 Voc Infor) (3-0) 3 sem. hrs. credit.** Methods of collecting, evaluating, and cataloging Occupational and Vocational Education Information. Techniques of dissemination of information.

#### VOCATIONAL COURSES REQUIRED FOR CERTIFICATION AS A VOCATIONAL SUPERVISOR

**IE 633. Techniques of Vocational-Research and Analysis. (IE 633 Voc Anal) (3-0) 3 sem. hrs. credit.** 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.

**IE 643. Organization and Administration of Vocational Education in the Public Schools. (IE 643 Org) (3-0) 3 sem. hrs. credit.** Analysis of skills and techniques of administering and supervising vocational programs in public schools. Rules and regulations for organizing and operation of vocational education including financing of vocational programs using local, State, and Federal funds.

**IE 653. Vocational-Technical Curriculum Development (IE 653 Curr Dev) (3-0) 3 sem. hrs. credit.** Techniques of vocational-technical curriculum development based on occupational analysis. Development of educational specifications. Classroom and shop or laboratory design. Equipment selection and use in the curriculum.

**IE 663. Supervision of Vocational Programs in the Public Schools. (IE 663 Voc Supv) (3-0) 3 sem. hrs. credit.** A study of the organization and administration of supervision or curriculum and instruction in the public schools.

**IE 813. Planning and Organizing Programs of Vocational Guidance. (IE 813 Org) (3-0) 3 sem. hrs. credit.** Purposes and functions of a guidance program. Group guidance procedures, components of a vocational guidance program. Techniques of providing vocational guidance services for elementary and secondary students and adults.

**IE 823. History and Principles of Vocational Education. (IE 823 Principles) (3-0) 3 sem. hrs. credit.** The historical development of vocational education. The objectives of vocational education. Types of vocational programs, services, and activities.



# GRADUATE TEACHER EDUCATION PROGRAMS

Harry G. Hendricks, Director

## ELEMENTARY EDUCATION

(Professional)

### SPECIALIZATION AREA (12)

Twelve (12) semester hours of graduate courses in a subject included in the public school curriculum in which the student has at least 24 semester hours undergraduate credit in a program for secondary teachers, or 18 semester hours in a program for elementary teachers.

### PROFESSIONAL DEVELOPMENT (6)

Psychology	593	Pupil Growth and Development
		and 3 semester hours from:
Education	723	Philosophy of Education
		— or —
	523	Principles and Practices of Educational Measurements
Education	823	Multicultural Education

### RESOURCE AREA (12)

Education	683	Elementary School Curriculum
	743	Problems of Elementary Teachers
	793	Diagnosis and Remedial Treatment of Elementary School Subjects
	643	Psychology of Reading
	633	Teaching Reading in the Elementary Grades
	753	Teaching the Language Arts
	763	Teaching of Social Studies in the Elementary School
	733	Teaching of Science in the Elementary Grades

### RESEARCH (6)

Education	843	Techniques of Research
	853	Project Thesis

## SPECIAL EDUCATION (LANGUAGE LEARNING DISABILITIES)

(Provisional Certificate)

### SPECIALIZATION Graduate Courses Available for Provisional Endorsement

Special Education	603	A Survey Course in the Education of Exceptional Children
	833	Diagnosis and Prescriptive Techniques as Applied to Language/Learning Disabilities
	843	Methods and Materials in Teaching Children with Learning Disabilities
	933	Learning Theory and Exceptional Children
	943	Language Problems of Exceptional Children
Psychology	593	Pupil Growth and Development

## TEACHER EDUCATION

### BUSINESS EDUCATION

#### (Professional)

#### SPECIALIZATION — (15)

Business Education	523	Problems in Business Education
	533	Advanced Methods of Teaching Business Subjects
	623	Curriculum Construction in Business Education
	723	Seminar in Business Education

#### ELECTIVE (Business) (3)

#### PROFESSIONAL DEVELOPMENT (9)

Education	823	Multicultural Education
	583	Secondary School Curriculum
	673	Methods of Teaching School Subjects
	503	Principles of Secondary Education

#### RESOURCE AREA (6)

Economics	583	Economic Problems of the Consumer
	663	Modern Economic Thought

#### RESEARCH (6)

Education	843	Techniques of Research
	853	Project and Thesis

### BIOLOGY

#### (Professional)

#### ACADEMIC SPECIALIZATION (18 semester hours)

Biology	524	Histology
	664	Invertebrate Zoology
	684	Vertebrate Zoology
	703	Selected Topics in Biology
	713	Selected Topics in Biology

#### RESOURCE AREA (6 or more semester hours)

#### ELECTIVE (6)

Biology	554	Embryology
	504	Embryology

#### PROFESSIONAL DEVELOPMENT (6 or more semester hours)

Psychology	593	Human Growth and Development
Education	673	Methods of Teaching Secondary School Subjects
	593	Human Growth and Development
	823	Multicultural Education

**SPECIAL EDUCATION (MENTALLY RETARDED)****(Provisional Certificate)****ACADEMIC SPECIALIZATION (18 semester hours)**

Special Education	603	Education of Exceptional Children
	613	Problems and Methods of Teaching Mentally Retarded Children
	633	Psychological Problems of Mentally Retarded Children
	903	Laboratory*
	913	Curriculum Building for Mentally Retarded Children
	923	Workshop*

\*ELECTIVE

**SPECIAL EDUCATION-EDUCATIONAL DIAGNOSTICIAN****(Professional)****KNOWLEDGE OF THE EXCEPTIONAL CHILD (9 semester hours)**

Special Education	603	Education of the Exceptional Child
	523	Learning and Cognitive Development of the Exceptional Child
	533	Communication Problems As They Relate To Exceptional Children

**KNOWLEDGE OF PSYCHOEDUCATIONAL AND OTHER DIAGNOSTIC PROCEDURES (9 semester hours)**

Psychology	513	Psychological Testing
Special Education	833	Diagnosis and Prescriptive Teaching
	873	Practicum in the Study of the Exceptional Child

**KNOWLEDGE OF HUMAN DEVELOPMENT (6 semester hours)**

Education	593	Human Growth and Development
Sociology	823	Multicultural Education

**KNOWLEDGE OF LEARNING THEORY (6 semester hours)**

Special Education	933	Principles of Learning for Exceptional Children
Psychology	583	Psychology and Education of Exceptional Children

**KNOWLEDGE OF INSTRUCTIONAL MODIFICATION, REMEDIATION, TECHNIQUES AND (6 semester hours)**

Special Education	863	Curriculum Adjustment and the Exceptional Child
Education	643	Instructional Strategies Appropriate for Exceptional Children

**RESEARCH (6 semester hours)**

Education	843	Techniques of Research
	853	Project and/or Thesis

TOTAL 42 Semester Hours (Master of Education Degree)

**EARLY CHILDHOOD EDUCATION (KINDERGARTEN)****(Endorsement)****SPECIALIZATION**

Education	833	Current Trends in Early Childhood
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## TEACHER EDUCATION

Psychology	623	Development of the Pre-School Child
	813	Kindergarten Methods and Materials
	823	Seminar in Kindergarten Curriculum

### CHEMISTRY

#### (Professional)

Chemistry	534	Biochemistry
	613	Advanced Inorganic Chemistry
	704	Advanced Analytical Chemistry
	783	Advanced Physical Chemistry
	714	Identification of Organic Compound

#### RESOURCE AREA (6 semester hours or more)

Chemistry	623	Modern Concepts in Physical Science
Science	543	Earth Science

#### PROFESSIONAL DEVELOPMENT (6 or more semester hours)

Psychology	593	Human Growth and Development
Education	673	Methods of Teaching Secondary School Subjects
	593	Human Growth and Development
	823	Multicultural Education

#### RESEARCH (6 semester hours or more)

Education	843	Techniques of Research
	853	Project and Thesis
		TOTAL 36 Semester Hours

## COUNSELOR EDUCATION

#### (Professional)

#### THE GUIDANCE PROGRAM (3)

Guidance	683	Admin. of a Guidance Program
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#### PROFESSIONAL DEVELOPMENT (9)

Psychology	733	Advanced Educational Psychology
	553	Psychology of Adjustment
Education	823	Multicultural Education
	593	Human Growth and Development

#### ACADEMIC SPECIALIZATION (12)

Guidance	643	Foundation of Guidance and Counseling
Psychology	533	Fundamentals of Statistics
	513	Psychological Testing
	603	Theory and Technique of Counseling
Guidance	713	Group Dynamics
	653	Career Dev. Theory, Vocational, Occup. & Educ. Inf.
	723	Prob. in Group Processes & Guidance
	603	Supv. Pract. in Guidance in the Secondary School

#### RESOURCE AREA (6) 6 semester hours of supportive courses

#### RESEARCH (6)

Education	843	Tch. of Educ. Research (M.Ed. degree)
		— or —
Guidance	863	Thesis Seminar in Guidance (M.S. degree)
Education	853	Thesis and Project Research (M.Ed. degree)
Guidance	873	Thesis Research in Guidance (M.S. degree)

**ENGLISH****(Professional)****ACADEMIC SPECIALIZATION (18 semester hours)**

English	583	The Novel
	543	The Short Story
	533	Medieval Literature
	753	Seminar in Masterpieces of Literature
	883	Chaucer's Major poetry
	643	Studies in Contemporary Drama

**RESOURCE AREA****Electives (6)**

English	833	Studies in the Teaching of English
	563	Studies in Linguistics and Grammar

**PROFESSIONAL DEVELOPMENT (6 semester hours)**

Psychology	593	Human Growth & Development
Education	673	Methods of Teaching High School Subjects
	823	Multicultural Education

**RESEARCH (6 semester hours)**

Education	843	Techniques of Research
	853	Thesis or Project

**HISTORY****(Professional)****SPECIALIZATION (14)**

History	503	Methods of Teaching History
	563	Survey of the Critical Attitudes, Tools of Scientific History
	572	Historical Investigative Paper and a minimum of 6 semester hours from graduate offering in History

**PROFESSIONAL DEVELOPMENT (9)**

Education	583	Secondary School Curriculum
	673	Methods of Teaching Secondary School Subjects
	823	Multicultural Education

**RESOURCE AREA (12) Twelve hours are required of which six must be from:**

Sociology	583	Social Anthropology
Economics	663	Modern Economic Thought
Political Science	613	Modern Political Theory
Geography	603	Geography of Texas

**INDUSTRIAL ARTS****(Professional)****SPECIALIZATION (18) from:**

Industrial Education	512-3	Development and Effective Use of Instructional Materials
	523	Test and Measurements in Industrial Education
	542-3	Occupational Analysis and Course Making
	563	The General Shop
	583	Industrial Arts for Elementary Schools

## TEACHER EDUCATION

- 712-3 Administration and Supervision of Industrial Education
- 710 Philosophy and Objectives of Industrial Education
- 743 The History of Industrial Education
- 753 Practicum in Industrial Education
- 783 Problems in Industrial Education

### PROFESSIONAL DEVELOPMENT (8)

- Education 523 Principles and Practices of Educational Measurements
- 723 Philosophy of Education
- 823 Multicultural Education

RESOURCE AREA (6) Six Semester hours which provide background for the specialization area, or in courses chosen to extend the student's preparation in a subject matter field other than his specialization. (May be Junior and Senior Level)

### RESEARCH (6)

- Industrial Education 763 Research and Thesis Writing
- 720 Thesis in Industrial Education

## ALL-LEVEL LEARNING RESOURCES SPECIALIST

(Professional)

### ACADEMIC SPECIALIZATION (21 semester hours)

- Educational Technology 743 Utilization, Cataloging, and Dissemination of Materials
- 653 Local Production of Instructional Materials
- 623 School Media Centers
- 553 Organization and Services of Libraries
- 533 Reference and Bibliography Materials
- 523 Children and Adult Literature
- 503 Audio Visual Materials in Instruction
- 500 Practicum

Total 24 Semester Hours

### RESOURCE AREA (6 or more semester hours)

- Required Education 853 Project and/or Thesis (3 or more semester hours)
- Electives Educational Technology 753 Advanced Local Production of Instructional Materials
- 633 Instructional Design and Development
- Psychology 533 Fundamentals of Statistics

## MATHEMATICS

(Professional)

### ACADEMIC SPECIALIZATION (18 semester hours)

- Mathematics 523 The Real Number System
- 553 Calculus for High School Science & Math Teachers
- 593 Logic and Geometry
- 633 Elementary Functions
- 643 Integrated Introduction to Geometry for Teachers
- 743 Statistics for High School Teachers

## RESOURCE AREA

Elective (6 semester hours)

Mathematics	703	Modern Algebra
	533	Selected Topics in Modern Mathematics

## PROFESSIONAL DEVELOPMENT (6 semester hours)

Psychology	593	Human Growth and Development
Education	673	Methods of Teaching High School Subjects
	823	Multicultural Education

## RESEARCH (6 semester hours or more)

Education	843	Techniques of Research
	853	Project and/or Thesis

TOTAL 36 Semester Hours

## PHYSICAL EDUCATION

(Professional)

## ACADEMIC SPECIALIZATION (18 semester hours)

PE	633	Tests and Measurements
	613	Individual Physical Education
	623	Physiology of Muscular Exercise
	653	Administrative Problems in Physical Education
	723	Kinesiology
	733	Supervision in Physical Education

## RESOURCE AREA (3 semester hours)

Electives

PE	593	Psychology of Motor Learning
	753	Scientific Foundation of Physical Education

Psychology

## PROFESSIONAL DEVELOPMENT (9 semester hours)

Psychology	593	Human Growth and Development
Education	693	Methods of Teaching Health and Physical Education
Ed	823	Multicultural Education

## RESEARCH (6 semester hours)

Education	843	Techniques of Research
	853	Project or Thesis

TOTAL 36 Semester Hours

## SOCIAL STUDIES

(Professional)

## SPECIALIZATION (18)

History	583	History of Civilization to 1500
(6 hours from:)	593	History of Civilization from 1500 to Present
	633	American Foreign Relations
	643	American Foreign Relations
	653	Contemporary United States History
	623	Problems in Latin American History
	673	The Negro in American History
Economics	743	Capitalism and Socialism
(3 hours from:)	773	Economic Theory and Social Policy
Geography	603	Geography of Texas
(3 hours from:)	613	Geography for Teachers
	713	Geography in Education

## TEACHER EDUCATION

	723	Geography in Education
Education	823	Multicultural Education
Government	513	American Local Rural Government
(3 hours from:)	523	Municipal Government
Sociology	803	Comparative Cultures and International Relations
	643	Modern Social Problems

## PROFESSIONAL DEVELOPMENT (9)

Education	503	Principles of Secondary Education
	583	Secondary School Curriculum
	673	Methods of Teaching Secondary School
	823	Multicultural Education

## RESOURCE AREA (6)

History	703	Great American Historians
	522	Library Techniques and Resources for Social Studies

## RESEARCH (6)

Sociology	563	Social Research
History	702	Seminar in Social Studies Education

## DRIVER EDUCATION

(Endorsement)

## SPECIALIZATION

Driver Education	703	Driver Education and Traffic Safety II
	703	Driver Education and Traffic Safety 55

## SUPERVISOR

## LEADERSHIP FOR INSTRUCTIONAL IMPROVEMENT

Supervision (9)	643	Elementary School Supervision
		— or —
	663	High School Supervision
		and
	753	Principles and Practices of Supervision
	733	Practicum in Supervision

## RESOURCE AREAS (21)

Psychology	593	Pupil Growth and Development
Education	723	Philosophy of Education
		and
	583	Secondary School Curriculum
	683	Elementary School Curriculum
		and
	673	Methods of Teaching Secondary School Subjects
		— or —
	683	Basic Principles for Curriculum Improvement in Elementary Schools
	823	Multicultural Education
Administration	523	Administration of School Personnel
	713	Fundamentals of Public School Administration

## RESEARCH (6)

Education	843	Techniques of Research
	853	Project & Thesis

## PROFESSIONAL CERTIFICATE FOR SCHOOL ADMINISTRATORS

(Based on the revised standards of 1972)

### COMMON CORE FOR MID-MANAGEMENT ADMINISTRATOR AND SUPERINTENDENT (18 semester hours)

Administration	713	Fundamentals of Administration
	743	Public School Law
	853	Organization and Administration of Curriculum K-12
	843	School Business Management
	893	Education Administration Theory and Practice
	753	Principles and Practices of Supervision

### ACADEMIC AREA (9 semester hours)

Sociology	823	Multi-Cultural Education
Psychology	593	Pupil Growth and Development

### (3 semester hours selected from the following courses)

Psychology	553	Psychology of Adjustment
Sociology	583	Social Anthropology
	593	Sociology of Education
	543	Sociology of Urban Areas
Psychology	533	Fundamentals of Statistics

### SPECIALIZED PREPARATION FOR MID-MANAGEMENT ADMINISTRATOR (18 semester hours)

Administration	533	Secondary School Administration
	633	Elementary Administration
	663	Administration of Special programs

### (6 semester hours selected from the following courses)

Industrial Education	643	Organization and Administration of Vocational-Technical Education
Supervision	643	Elementary School Supervision
	663	Secondary School Supervision
Guidance	583	Educational and Occupational Information
	683	Organization and Administration of Guidance Programs
Special Education	603	Survey of Special Education
Education	633	Teaching Reading
Administration	733	Mid-Management Internship

### SPECIALIZED PREPARATION FOR SCHOOL SUPERINTENDENT (15 semester hours)

Administration	613	School Plant Administration
	523	School Personnel Administration
	703	School Finance
	763	Administration of Special Programs

### (3 semester hours selected from the following courses)

Administration	803	Public Relations for School Administrator
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## TEACHER EDUCATION

### VOCATIONAL AGRICULTURAL EDUCATION

(Professional)

#### SPECIALIZATION

12 or more hours from:

Agricultural Education	503	Agricultural Education Seminar
	513	Methods of Conducting Part-Time and Evening Schools in Vocational Agriculture
	533	Extension Organization and Program Determination
	543	Extension Methods
	713	Problems in Agricultural Education
	723	Principles of Teaching Methods in Agricultural Education

PROFESSIONAL DEVELOPMENT AND RESOURCE AREAS 3-12 hours may be taken in Vocational Supervision, and Counseling from the following courses:

Industrial Ed. 813, 833, 653, 643, 633, 573

3-12 hours may be taken in the Agricultural Sciences including:

Animal Science

Soil and Plant Science

Agricultural Economics

Agricultural Engineering

Sociology 823 — Multicultural Education (Required)

This plan will enable the student to receive the Master's of Education Degree as well as certify for Vocational Supervision and counseling. Those student not desiring Vocational Supervision and Counseling certification may concentrate in the Agricultural Sciences and selected courses in general education. Students desiring the Master of Arts or Science will take 30 semester hours course work, exclusive of thesis.

#### RESEARCH (7)

### HOME ECONOMICS

Professional Certificate

#### ACADEMIC SPECIALIZATION (18 semester hours)

Students may select from among the following courses:

Home Economics	513	Studies in Home Management
	553	Family Life Problems
	563	Consumer
	733	Seminar in Foods
	753	Clothing Seminar
	763	Problems in Home Economics
	813	Child Development Curriculum
	883	Personal and Family Finance
	913	Problems of Youth
		Total 18 Semester Hours

#### RESOURCE AREA (6 or more semester hours)

Students may select from among the following:

Sociology	543	Sociology of Urban Areas
	583	Social Anthropology
	603	Program in Child Welfare
	643	Social Disorganization
	683	Sociology of Youth
	614	Socio-Psychological Aspects of Poverty
	823	Multicultural Education
		Total 6 Semester Hours

**PROFESSIONAL DEVELOPMENT (6 or more semester hours)**

Students may select from among the following courses:

Home Economics	543	Advanced Methods
Education	643	Adult Education
	593	Home Economics Curriculum
	723	Measurement
		Total 6 Semester Hours

**RESEARCH (6 or more semester hours)**

Home Economics	523	Research Problems
Education	843	Techniques in Educational Research
		Total 6 Semester Hours

**TOTAL 36 Semester Hours****READING SPECIALIST****(Professional)****ACADEMIC SPECIALIZATION (12 semester hours)**

Education	633	Reading in the Elementary School
	733	Reading in the Secondary School
	673	Diagnosis and Correction of Reading Difficulties
	813	Clinical or Laboratory Experiences in Reading

**RESOURCE AREA (6 or more semester hours)****Required (6)**

Sociology	823	Multi-Cultural Education
English	563	Linguistics and English Grammar

**Electives (6)**

Education	643	Psychology of Reading
English	873	Language Arts Workshop
Education	753	Teaching the Language Arts

**(6 or more semester hours)****Professional Development (For Secondary School Certificate Holders)**

Psychology	523	Child Growth and Development
Education	623	Methods of Teaching Reading in the Elementary School

**Professional Development (For Elementary School Certificate holders)**

Psychology	593	Growth and Development Patterns of Adolescents
Education	693	Methods of Teaching Secondary Reading

**RESEARCH (6 or more semester hours)**

Education	843	Techniques of Research
	853	Project and/or Thesis

## TEACHER EDUCATION

### THIRTY SEMESTER HOUR CERTIFICATION PROGRAM FOR VOCATIONAL SUPERVISORS

This program is designed for persons with a baccalaureate or Master's Degree and who desire to pursue certification as a vocational supervisor.

Course requirements and descriptions are given below:

Required Vocational Courses (21 hrs.)

Vocational Courses (18 hrs.)

Industrial Education	633	Techniques of Vocational Research and Analysis
Industrial Education	643	Organization and Administration of Vocational Education in the Public Schools
Industrial Education	653	Vocational-Technical Curriculum Development
Industrial Education	663	Supervision of Vocational Programs in the Public Schools
Industrial Education	813	Planning and Organizing Programs of Vocational Guidance
Industrial Education	823	History and Principles of Vocational Education (3 hrs.-Choose one course)
Administration	713	Fundamentals of School Administration
Industrial Education	— or —	
Industrial Education	713	Administration and Supervision of Industrial Arts Education
	— or —	
Industrial Education	570	Selection, Placement and Follow-up in Vocational Education
	— or —	
Supervision	753	Principles and Practices of Supervision
Supervision	663	High School Supervision
	733	Supervision Practicum
Education (Required)	823	Multicultural Education



# OFFICE OF CAREER EDUCATION AND PLACEMENT

**Brutus Jackson, Director**

The Office of Career Planning and Placement assists the student, beginning with the freshman year, in planning his career, and assists him in finding employment, both while a student, and after he leaves the University. It sponsors four conferences a year, bringing persons from many walks of life as consultants in career opportunities. It assists with follow-up and counseling services and arranges interviews between prospective employees and employers.

The Office maintains permanent personnel records, including ratings and recommendations of the graduates. These records serve as a source of information such as is frequently requested by employers. Transcripts of courses completed, background information, work experience, faculty recommendations, photographs and other pertinent information are compiled and sent to prospective employers at the request of the graduate, faculty member or employer.

The Office is maintained and operated for the purpose of assisting ex-students and graduates in securing employment. It is also a free public service functioning as an aid to employers in securing qualified personnel.

Graduating seniors and alumni should register with the bureau.

The service is FREE.

In addition to the resources of the W. R. Banks Library, readers may have access to those of other libraries through inter-library loans and other cooperative arrangements. The library staff will make such arrangements upon proper request.

To secure the greatest benefit from the services made available to readers in the library, each reader must become acquainted with library rules and regulations and should seek timely guidance from the qualified members of the library staff.

The library and its facilities contribute to the academic climate of the University by providing comfortable, convenient, adequate and beautiful study areas for those who must do assigned readings, for serious readers, for scholars, and for those who will read for general development and cultural advancement.

To facilitate effective use of the library on the part of its readers, the staff in each service area gives consultation, informational, and directional services to those who require such services. Please feel free to request such help when it is needed.

Library Service hours are as follows:

Monday-Friday: 8:00 a.m.-10:00 p.m.

Saturday: 8:00 a.m.-5:00 p.m.

Sunday: 2:00 p.m.-10:00 p.m.

Any exceptions to these hours will be posted in the library.

## DIVISION OF CONTINUING EDUCATION

**I. D. Starling, Director**

The Division of Continuing Education was established for the purpose of extending instruction and services of Prairie View A&M University to communities in the State. It is an organization for the people of Texas and the agency through which the various colleges, department and other units of the university may extend their services to citizens of the State.

## CONTINUING EDUCATION

Continuing Education is the term applied to those organized post-secondary education experiences which is not a part of regular on-campus residential instructional program planned specifically for adult citizens who desire to improve their vocational, professional, cultural, or social learning beyond their present level of education.

### PROGRAMS AND ACTIVITIES

The Division of Continuing Education is responsible for the co-ordination of all continuing education programs and activities developed by the colleges, schools and departments of instruction of the university. The usual programs and activities associated with continuing education are credit and non-credit evening courses, short courses, seminars, workshops, conferences, institutes correspondence study, extension classes and school services.

### CONFERENCES — INSTITUTES — SEMINARS

The development of conferences, institutes, or seminars by various colleges or department of the university is based on the requests of citizens or needs observed by the university. The Division of Continuing Education assists the various units of the university through co-ordination, program planning, budget development, arrangement for physical facilities and certification of continuing education credits. Conferences, institutes, seminar and short courses may be offered in any region of the state where a sufficient number of persons indicate a need or a desire for the activities.

### EXTENSION CLASSES

Extension classes are offered in any community or region of the state where a sufficient number of students may be organized to form a class, where a qualified instructor is available and the location is geographically feasible to serve. The classes are designed primarily to meet the needs of in-service teachers on the graduate level, but this does not preclude enrollment of other qualified professional or non-professional persons. The entrance requirements are the same as those for resident students.

### REGISTRATION, FEE, POLICIES AND PROCEDURES

Students who enroll in the Division of Continuing Education are expected to comply with University policy and regulations which govern the respective program or activity. This includes fees, Academic standards and registration procedures.

### CONTINUING EDUCATION CREDIT

Continuing Education Credits (C.E.U.) may be earned by students who are properly enrolled in short courses, seminars, or other Program activities in which college semester hours are not earned.



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## SUMMARY OF DEGREES AND CERTIFICATES AWARDED

DECEMBER 1979

Degree	Male	Female	Total
Bachelor of Science in Agriculture .....	3	-	3
Bachelor of Arts .....	5	3	8
Bachelor of Arts in Social Work .....	2	2	4
Bachelor of Business Administration .....	12	10	22
Bachelor of Science .....	5	19	24
Bachelor of Science in Education .....	2	19	21
Bachelor of Architecture .....	2	1	3
Bachelor of Science in Civil Engineering .....	3	-	3
Bachelor of Science in Electrical Engineering .....	5	-	5
Bachelor of Science in Mechanical Engineering .....	6	4	10
Bachelor of Science in Dietetics .....	-	3	3
Bachelor of Science in Home Economics .....	-	7	7
Bachelor of Science in Industrial Education .....	5	1	6
Bachelor of Science in Industrial Technology .....	8	2	10
Master of Business Administration .....	15	1	16
Master of Education .....	14	37	51
Master of Science .....	3	1	4
<b>Total</b>	<b>90</b>	<b>110</b>	<b>200</b>

MAY 1980

Degree	Male	Female	Total
Bachelor of Science in Agriculture .....	11	2	13
Bachelor of Arts in Music .....	-	1	1
Bachelor of Music .....	-	1	1
Bachelor of Arts .....	9	13	22
Bachelor of Arts in Social Work .....	2	8	10
Bachelor of Business Administration .....	11	17	28
Bachelor of Science .....	17	40	57
Bachelor of Science in Education .....	-	28	28
Bachelor of Architecture .....	9	2	11
Bachelor of Science in Civil Engineering .....	3	5	8
Bachelor of Science in Electrical Engineering .....	14	4	18
Bachelor of Science in Mechanical Engineering .....	13	8	21
Bachelor of Science in Dietetics .....	-	2	2
Bachelor of Science in Home Economics .....	-	2	2
Bachelor of Science in Industrial Education .....	13	1	14
Bachelor of Science in Industrial Technology .....	8	-	8
Bachelor of Science in Nursing .....	-	38	38
Master of Arts .....	3	2	5
Master of Business Administration .....	20	9	29
Master of Education .....	37	58	95
Master of Science .....	3	4	7
<b>Total</b>	<b>173</b>	<b>245</b>	<b>418</b>

AUGUST 1980

Degree	Male	Female	Total
Bachelor of Science in Agriculture .....	1	2	3
Bachelor of Arts .....	8	9	17
Bachelor of Arts in Music .....	1	-	1
Bachelor of Arts in Social Work .....	1	3	4
Bachelor of Business Administration .....	14	10	24
Bachelor of Science .....	6	6	12
Bachelor of Science in Education .....	-	8	8
Bachelor of Architecture .....	2	-	2
Bachelor of Science in Civil Engineering .....	4	-	4
Bachelor of Science in Electrical Engineering .....	4	-	4

Bachelor of Science in Mechanical Engineering	4	1	5
Bachelor of Science in Dietetics	1	1	2
Bachelor of Science in Home Economics	-	2	2
Bachelor of Science in Industrial Education	-	1	1
Bachelor of Science in Industrial Technology	10	1	11
Bachelor of Science in Nursing	-	4	4
Master of Arts	-	3	3
Master of Business Administration	18	6	24
Master of Education	33	127	160
Master of Science	3	4	7
<b>Total</b>	<b>110</b>	<b>188</b>	<b>298</b>

### SUMMARY OF ENROLLMENT

#### FIRST SEMESTER 1979-80 (9-79)

Classes	Agri		A&S		HE		Engr		IE		Nurs		Total		Combined Total
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
Graduates	17	2	451	707	-	10			36	37			504	756	1,260
Seniors	13	4	45	140	1	48	177	63	79	18	2	61	317	334	651
Juniors	19	2	154	201	1	13	95	36	31	18	-	36	300	306	606
Sophomores	24	3	191	249	-	22	111	26	79	10	5	60	410	370	780
Freshmen	31	11	631	582	3	41	209	84	168	18	6	143	1,048	879	1,927
<b>Total</b>	<b>104</b>	<b>22</b>	<b>1,472</b>	<b>1,879</b>	<b>5</b>	<b>134</b>	<b>592</b>	<b>209</b>	<b>393</b>	<b>101</b>	<b>13</b>	<b>300</b>	<b>2,579</b>	<b>2,645</b>	<b>5,224</b>

#### SECOND SEMESTER 1979-80 (1-80)

Classes	Agri		A&S		HE		Engr		IE		Nurs		Total		Combined Total
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
Graduates	16	2	452	677	-	6			30	37			498	722	1,220
Seniors	19	5	188	295	1	38	202	67	81	23	4	74	495	502	997
Juniors	20	1	150	192	-	21	83	33	42	13	3	76	298	336	634
Sophomores	20	8	238	295	1	20	179	57	90	8	5	79	533	467	1,000
Freshmen	19	6	334	309	5	33	73	30	96	12	3	98	530	488	1,018
<b>Total</b>	<b>94</b>	<b>22</b>	<b>1,362</b>	<b>1,768</b>	<b>7</b>	<b>118</b>	<b>537</b>	<b>187</b>	<b>339</b>	<b>93</b>	<b>15</b>	<b>327</b>	<b>2,354</b>	<b>2,515</b>	<b>4,869</b>

#### ENROLLMENT WITHOUT DUPLICATIONS

##### FIRST AND SECOND SEMESTERS 1979-80 (9-79 and 1-80)

Classes	Agri		A&S		HE		Engr		IE		Nurs		Total		Combined Total
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
Graduates	19	2	472	696	-	10			48	52			539	760	1,299
Seniors	19	5	188	276	1	50	202	69	81	25	4	78	495	503	998
Juniors	20	1	134	179	1	21	95	36	47	18	3	81	300	336	636
Sophomores	24	8	221	310	1	22	180	62	102	10	5	80	533	492	1,025
Freshmen	31	11	629	579	5	41	209	84	169	21	6	143	1,049	879	1,928
<b>Total</b>	<b>113</b>	<b>27</b>	<b>1,644</b>	<b>2,040</b>	<b>8</b>	<b>144</b>	<b>686</b>	<b>251</b>	<b>447</b>	<b>126</b>	<b>18</b>	<b>382</b>	<b>2,916</b>	<b>2,970</b>	<b>5,886</b>

#### FIRST SUMMER TERM 1979-80 (6-80)

Classes	Agri		A&S		HE		Engr		IE		Nurs		Total		Combined Total
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
Graduates	12	2	364	582	-	3			46	32			422	619	1,041
Seniors	9	3	95	172	1	32	87	28	37	18	-	7	229	260	489
Juniors	5	1	72	99	-	10	34	19	20	7	-	24	131	160	291
Sophomores	15	2	73	120	-	7	65	27	20	4	3	31	176	191	367
Freshmen	3	5	194	302	-	13	101	66	51	33	-	36	349	455	804
<b>Total</b>	<b>44</b>	<b>13</b>	<b>798</b>	<b>1,275</b>	<b>1</b>	<b>65</b>	<b>287</b>	<b>140</b>	<b>174</b>	<b>94</b>	<b>3</b>	<b>98</b>	<b>1,307</b>	<b>1,685</b>	<b>2,992</b>

#### SECOND SUMMER TERM 1979-80 (7-80)

Classes	Agri		A&S		HE		Engr		IE		Nurs		Total		Combined Total
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
Graduates	11	1	231	395	-	2			11	16			253	414	667
Seniors	7	3	80	144	-	25	29	5	25	12	-	8	141	197	338
Juniors	4	1	58	92	-	12	16	3	18	7	-	15	96	130	226
Sophomores	9	1	62	82	-	8	9	8	14	-	2	25	96	124	220
Freshmen	6	4	152	259	-	9	7	4	36	11	1	26	202	313	515
<b>Total</b>	<b>37</b>	<b>10</b>	<b>583</b>	<b>972</b>	<b>0</b>	<b>56</b>	<b>61</b>	<b>20</b>	<b>104</b>	<b>46</b>	<b>3</b>	<b>74</b>	<b>788</b>	<b>1,178</b>	<b>1,966</b>

#### ENROLLMENT WITHOUT DUPLICATIONS

##### FIRST AND SECOND SUMMER TERMS 1979-80 (6-80 and 7-80)

Classes	Agri		A&S		HE		Engr		IE		Nurs		Total		Combined Total
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
Graduates	13	2	404	652	-	3			48	34			465	691	1,156
Seniors	12	3	116	204	1	34	93	28	39	19	-	12	261	300	561
Juniors	5	1	77	108	-	13	34	19	23	8	-	29	139	178	317
Sophomores	16	2	78	122	-	8	67	30	23	4	3	31	187	197	384
Freshmen	6	5	238	331	-	15	105	68	55	36	1	37	405	492	897
<b>Total</b>	<b>52</b>	<b>13</b>	<b>913</b>	<b>1,417</b>	<b>1</b>	<b>73</b>	<b>299</b>	<b>145</b>	<b>188</b>	<b>101</b>	<b>4</b>	<b>109</b>	<b>1,457</b>	<b>1,858</b>	<b>3,315</b>

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