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## Graduate Catalog - The School Year 1979-1980

Prairie View A&M University

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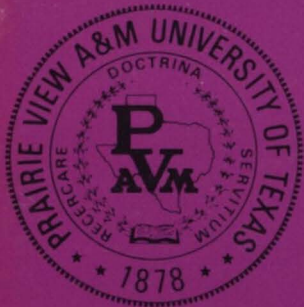
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**Prairie View  
A&M  
University**

**GRADUATE  
CATALOG**

**UNIVERSITY  
BULLETIN**

**1979-80**



37

**PRAIRIE VIEW A&M  
UNIVERSITY  
GRADUATE CATALOG  
1979-80**

**ARCHIVE COLLECTION,**

**102 nd  
YEAR**

**P  
AVM**

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 68

JULY 1979

NO. 3

# GRADUATE CATALOG

RECORD OF SESSION 1978-79  
ANNOUNCEMENTS FOR THE SESSION 1979-80



LD  
4571  
P58037  
1979-1980  
Grad.

## ACCREDITATION

The University is accredited by the Texas Education Agency, the Southern Association of Colleges and Schools, and the Association of Texas Colleges and Universities. The teacher education programs are accredited by the National Council for Teacher Education for the preparation of elementary teachers, secondary teachers, administrators, and special services personnel. The Engineering curricula are nationally accredited by the Engineers' Council for Professional Development. The Nursing Curriculum is accredited by the National League of Nursing.

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.

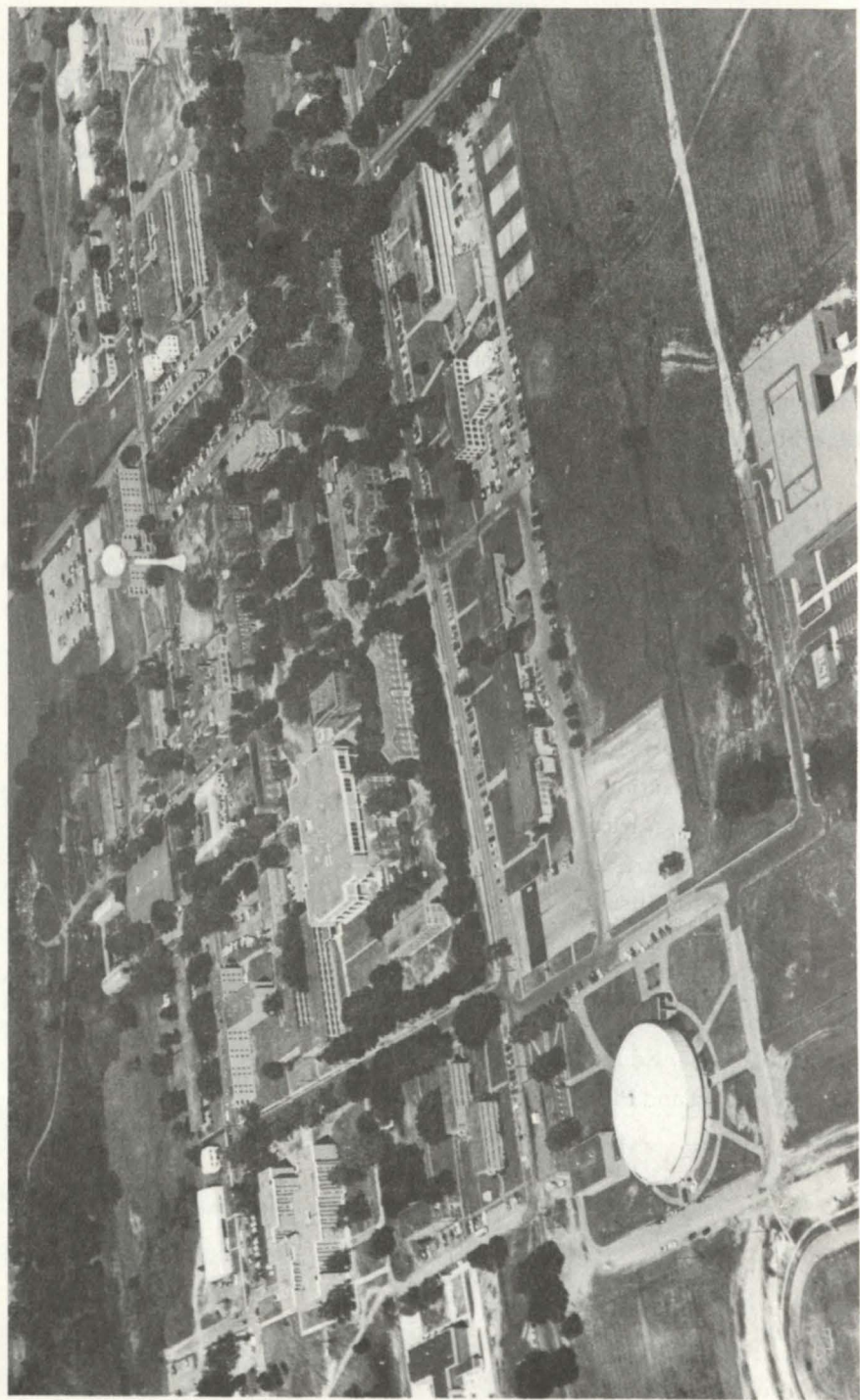
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## MEMBERSHIPS

American Association of Collegiate Registrars and Admissions Officers  
American Council on Education  
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  
Engineering Council for Professional Development  
National Association of Collegiate Deans and Registrars  
National Association of Educational Buyers  
National Commission on Accrediting  
National Council for the Accreditation of Teacher Education  
National Council of Teachers of English  
National League of Nurses  
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 CALENDAR 1979-80

## FIRST SEMESTER, 1979-80

AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

August	1		
Through		8:00 a.m.-5:00 p.m.	Early Registration for First Semester
September	1		First Semester Opens
August	27	8:00 a.m.	Faculty Conference
August	28-31	All Day	Residence Hall Opens
September	1	8:00 a.m.	Orientation for New Students
September	1	All Day	Parent's Day
September	2	All Day	Registration for Former Students
September	3-4	8:00 a.m.-5:00 p.m.	Classes Begin
September	5	7:30 a.m.	Late Registration Fee Begins
September	17	5:00 p.m.	Registration Closes
September	20	8:00 a.m.-5:00 p.m.	12th Class Day
			Last Day for Changing Program
September	27	10:30 a.m.	Academic Convocation
October	25-27	All Day	Mid-Semester Examinations
November	21	12:30 (Noon)	Thanksgiving Recess
November	26	7:30 a.m.	Classes Resume
November	26	8:00 a.m.-5:00 p.m.	
Through		(M-F)	
December	22	8:00 a.m.-11:30 a.m.(S)	Early Registration for Second Semester
December	17-22	All Day	Final Examinations
December	22	5:00 p.m.	Residence Halls and Dining Hall Closes
December	22	5:00 p.m.	First Semester Closes
December	24		
to		8:00 a.m.	Christmas Vacation
January	14		



## SECOND SEMESTER, 1979-80

JANUARY	FEBRUARY	MARCH	1	APRIL	MAY
1 2 3 4 5	1 2	2 3 4 5 6 7 8	1	1 2 3 4 5	1 2 3
6 7 8 9 10 11 12	3 4 5 6 7 8 9	9 10 11 12 13 14 15	6 7 8 9 10 11 12	4 5 6 7 8 9 10	
13 14 15 16 17 18 19	10 11 12 13 14 15 16	16 17 18 19 20 21 22	13 14 15 16 17 18 19	11 12 13 14 15 16 17	
20 21 22 23 24 25 26	17 18 19 20 21 22 23	23 24 25 26 27 28 29	20 21 22 23 24 25 26	18 19 20 21 22 23 24	
27 28 29 30 31	24 25 26 27 28 29	30 31	27 28 29 30	25 26 27 28 29 30 31	
January	7	8:00 a.m.		Second Semester Opens	
January	7-9	All Day		Mid-Year Faculty Conference	
January	10	All Day		Residence Hall and Dining Hall Opens	
January	11-15	8:00 a.m.-5:00 p.m.		Orientation For New Students	
January	15	5:00 p.m.		Registration For All Students	
January	16	7:30 a.m.		Registration Closes	
January	31	8:00 a.m.-5:00 p.m.		Classes Begin	
March	6-8	All Day		Late Registration Fee Begins	
March	10-14	All Day		12th Class Day	
April	3	12:30 (Noon)		Last Day For Changing Program	
April	7	7:30 a.m.		Mid-Semester Examinations	
April	27	All Day		Faculty Renewal	
April	7	8:00 a.m.-5:00 p.m.		Easter Recess Begins	
May	Through	(M-F)		Classes Resume	
May	10	9:00 a.m.-11:30 a.m. (S)		Parent's Day	
May	4	10:30 a.m.		Early Registration for Summer Session	
May	5-10	All Day		Spring Commencement	
May	12-23	All Day		Final Examinations	
May	17	5:00 p.m.		Faculty Renewal	
May	26	All Day		Second Semester Closes	
				Inter-Session Recess	

## SUMMER SESSION, 1979-80

JUNE	JULY	AUGUST
1 2 3 4 5 6 7	1 2 3 4 5	1 2
8 9 10 11 12 13 14	6 7 8 9 10 11 12	3 4 5 6 7 8 9
15 16 17 18 19 20 21	13 14 15 16 17 18 19	10 11 12 13 14 15 16
22 23 24 25 26 27 28	20 21 22 23 24 25 26	17 18 19 20 21 22 23
29 30	27 28 29 30 31	24 25 26 27 28 29 30
		31

### First Term

June	2	8:00 a.m.	Summer Sessions; First Term Opens
June	2-3	8:00 a.m.-5:00 p.m.	Registration
June	4	7:00 a.m.	Classes Begin
June	9	5:00 p.m.	Late Registration Fee Begins
June	9	All Day	Close of Registration
July	4	All Day	4th Class Day
July	7	7:00 a.m.	Last Day for Changing Program
July	11	All Day	4th of July Recess
July	12	5:00 p.m.	Classes Resume
			Final Examinations
			First Term Closes

## Second Term

July	14	8:00 a.m.	Second Term Opens
July	14-15	8:00 a.m.-5:00 p.m.	Registration for 6 weeks and 3-weeks Classes
July	16	7:00 a.m.	Classes Begin Late Registration Fee Begins
July	21	5:00 p.m.	Close of Registration
July	21	All Day	4th Class Day Last Day for Changing Program
August	1	All Day	Final Examinations for 3-weeks Courses
August	17	10:30 a.m.	Summer Commencement
August Through September	21 1	8:00 a.m.-5:00 p.m. (M-F) 8:00 a.m.-11:30 a.m. (S)	Early Registration for First Semester
August	22	All Day	Final Examinations for 6-Weeks Courses
August	23	5:00 p.m.	Close of Second Term

## 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 Directors 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

**BOARD OF REGENTS  
THE TEXAS A&M UNIVERSITY SYSTEM**

Clyde H. Wells, Chairman . . . . .	Granbury
H. C. Bell, Jr. . . . .	Austin
John R. Blocker . . . . .	Houston
John B. Coleman . . . . .	Houston
Alfred I. Davies . . . . .	Dallas
Norman N. Moser . . . . .	DeKalb
Joe H. Reynolds . . . . .	Houston
Ross C. Watkins . . . . .	Uvalde
Royce E. Wisenbaker . . . . .	Tyler

**SYSTEM OFFICIALS  
THE TEXAS A&M UNIVERSITY SYSTEM**

W. C. Freeman . . . . .	Executive Vice Chancellor for Administration
John C. Calhoun, Jr. . . . .	Executive Vice Chancellor for Programs
James B. Bond . . . . .	Vice Chancellor for Legal Affairs and General Counsel
Robert L. Walker . . . . .	Vice Chancellor for Development and Director of the Development Foundation
Nelda Rowell . . . . .	Assistant to the Chancellor
Robert G. Cherry . . . . .	Assistant to the Chancellor and Secretary to the Board
Brenda J. Manley . . . . .	Assistant Secretary to the Board
Allen L. Schlandt . . . . .	System Comptroller

# PRAIRIE VIEW A&M UNIVERSITY 1977-78

## Administrative Officers

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

## Other Administrative Officers

Mary A. Clark, Assoc. Director of Admissions  
A. D. James, Director, Student Financial Aid  
Brutus Jackson, Director, Career Planning and Placement  
Arlie E. Lebeaux, Superintendent, Maintenance Department  
Leroy Marion, Dean of Men  
Emory R. Owens, Medical Director  
L. L. Tramble, Superintendent, Building and Grounds

# GRADUATE FACULTY

- Afeguku, Sheila Yvette (1978) . . . . . Assistant Professor of History  
 B.A. 1971, Bethune Cookman College  
 M.A. 1972, Atlanta University  
 Ph.D. 1979, University of London (in process)
- Aikens, Louis L. (1978). . . . . Professor & 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 and Head,  
 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) . . . . . Associate Professor of Biology  
 A.B. 1951, Fisk University  
 M.A. 1953, Fisk University  
 Ph.D. 1956, University of Notre Dame
- Bhagia, Gobind S. (1976) . . . . . Assistant Professor of Business  
 B.A. 1962, Rajasthan University (India)  
 M.S. 1967, Texas A&M University  
 Ph.D. 1971, Oregon State University
- 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
- Brossette, Alvin, Jr. (1976) . . . . . Professor and Head, Department  
 of Elementary Education  
 B.S. 1962, Grambling State University  
 M.A. 1970, Northwestern State University  
 Ed.D. 1975, Western Michigan University

GRADUATE FACULTY

- Brown, George Erwin (1975) . . . . . Assistant 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 and Dean, College  
 of Home Economics  
 B.S. 1948, Florida A&M University  
 M.Ed. 1954, Pennsylvania State University  
 Ph.D. 1963, Cornell University
- Carter, Allen Connard (1976) . . . . . Assistant Professor of Psychology  
 B.A. 1966, Morehouse College  
 M.S. 1969, Columbia University  
 Ph.D. 1973, Columbia University
- Carter, Purvis Melvin (1956) . . . . . Associate Professor of History  
 A.B. 1948, Tillotson College  
 M.A. 1950, Howard University  
 Ph.D. 1970, University of Colorado
- Clark, Lester (1978) . . . . . Associate Professor of Education  
 B.S. 1966, Central State University  
 M.A. 1968, Central State University  
 Ed.D. 1973, Oklahoma State University
- 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
- Coleman, Lee Roy (1976) . . . . . Assistant Professor of Education  
 B.S. 1967, Prairie View A&M University  
 M.Ed. 1973, Prairie View A&M University  
 Further Study: Texas A&M University
- Collins, Johnnie B. (1971) . . . . . Associate Professor of Agriculture  
 B.S. 1965, Alcorn State University  
 M.S. 1967, Michigan State University  
 Ph.D. 1971, Michigan State University
- Collins, Samuel R. (1949) . . . . . Professor 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
- Cooksey, Dymple C. (1964) . . . . . Associate Professor of Food and  
 Nutrition  
 B.S. 1949, Oklahoma State University  
 M.S. 1964, Oklahoma State University  
 Ph.D. 1972, Texas Women's University
- Diggs, Delilia A. (1978) . . . . . Assistant Professor, College  
 of Home Economics  
 B.S. 1971, Prairie View A&M University  
 M.Ed. 1975, University of Houston  
 Ph.D. 1978, Oklahoma State University
- 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

## GRADUATE FACULTY

- 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
- Harvey, Clinnon (1966) . . . . . Assistant Professor of Mathematics  
B.S. 1969, Prairie View A&M University  
M.S. 1970, Prairie View A&M University  
Ed.D. 1976, University of Houston
- Hawkins, Dorisula Dorlyne (1966) . . . . . Associate Professor 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  
B.A. 1937, Texas College  
M.Ed. 1949, Colorado University  
D.Ed. 1960, Colorado University
- 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
- Hill, Tommie A. (1976) . . . . . Associate Professor of Mathematics  
B.A. 1969, Emory University  
M.S. 1970, Northwestern University  
Ed.D. 1976, University of Houston
- 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

- Jain, Lal C. (1973) . . . . . Assistant Professor of Business  
 B. Com. 1947, Holkar College  
 M.Comm. 1949, Agra University (India)  
 LL.B. 1950, Agra University  
 M.A. 1952, Agra University  
 M.B.A. 1962, New York University  
 Ph.D. 1972, Jiwaji University (India)
- Jenkins, Thomas V. (1978) . . . . . Associate Professor of Education  
 B.S. 1951, Sam Houston State University  
 M.A. 1958, Sam Houston State University  
 Ph.D. 1960, University of Texas
- Johnson, Burnis Lee (1976) . . . . . Assistant Professor of Mathematics  
 B.S. 1954, Texas College  
 M.S. 1964, Prairie View A&M University  
 Ed.D. 1975, University of Houston
- Kelley, Danny Roy (1978). . . . . Associate Professor of Music  
 B.A. 1969, Prairie View A&M University  
 M.M. 1971, Peabody Conservatory of Music  
 D.M.A. 1979, Peabody Conservatory of Music
- Kendall, William S. (1974) . . . . . Associate Professor 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
- 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 and Head,  
 Department of Economics & Geography  
 B.A. 1968, North Carolina College  
 M.A. 1970, University of Cincinnati  
 Ph.D. 1976, University 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
- Kynard, Alfred T. (1953) . . . . . Associate Professor, College  
 of Industrial Education & Technology  
 B.S. 1950, Hampton Institute  
 M.A. 1951, New York University  
 Ed.D. 1960, University of California at Los Angeles
- Lee, Donald Ray (1974) . . . . . Assistant Professor of Business  
 B.A. 1964, University of Houston  
 M.A. 1965, Sam Houston State University  
 Ed.D. 1975, University of Houston
- Lewis, Willie Mae (1976) . . . . . Assistant Professor of Education  
 B.S. 1967, Texas Southern University  
 M.A. 1972, Texas Southern University  
 Ph.D. 1978, Temple University
- Lokey, James Allen (1972) . . . . . Associate Professor of Education  
 B.S. 1966, University of Houston  
 M.Ed. 1968, University of Houston  
 Ed.D. 1971, University of Houston
- Mangaroo, Arthur S. (1969) . . . . . Assistant Professor of Agriculture  
 B.S. 1962, North Carolina A&T  
 M.S. 1963, Ohio State University  
 Ph.D. 1967, Ohio State University



## GRADUATE FACULTY

- Martin, Edward Williford (1952) . . . . . Associate Professor of Biology &  
Chairman, Division of Natural Sciences  
B.A. 1950, Fisk University  
M.A. 1952, Indiana University  
Ph.D. 1962, University of Iowa
- Mathis, Larry J. (1978) . . . . . Associate Professor of Education  
B.S. 1972, East Texas State University  
M.S. 1973, East Texas State University  
Ed.D. 1977, East Texas State University
- 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
- 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
- Richards, Freddie (1976) . . . . . Professor and Dean, College of  
Agriculture  
B.S. 1966, Alabama A&M University  
M.Ed. 1969, Tuskegee Institute  
Ph.D. 1972, Pennsylvania State University
- Roberts, Alfred L. (1974) . . . . . Associate Professor of Education  
B.S. 1963, Prairie View A&M University  
M.A. 1966, Texas A&M University  
Ed.D. 1973, 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

- Settles, Carl E. (1975) . . . . . Associate Professor of Education  
 B.S. 1970, Prairie View A&M University  
 M.Ed. 1971, Prairie View A&M University  
 Ph.D. 1976, University of Texas
- 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). . . . . Associate 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) . . . . . Associate 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) . . . . . Associate Professor and Head,  
 Department of Agricultural Education  
 B.S. 1960, Prairie View A&M University  
 M.S. 1963, University of Illinois  
 Ed.D. 1973, North Carolina State University
- Taylor, Willie E., Jr. (1968). . . . . Assistant Professor of Mathematics  
 B.S. 1966, Prairie View A&M University  
 M.S. 1967, Prairie View A&M University  
 Ph.D. 1974, University of Houston
- Thomas, Curtis A. (1968) . . . . . Associate Professor of Education  
 and Registrar  
 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) . . . . . Assistant Professor and Head  
 Department of English  
 B.S. 1960, Tuskegee Institute  
 M.A. 1965, 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

## GRADUATE FACULTY

- Washington, Arthur Clovis (1974) . . . . . Associate 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
- Webber, Elvin Harold (1978). . . . . Assistant Professor, College of  
Industrial Education & Technology  
B.S. 1968, Central State University  
M.A. 1971, Howard University  
Ph.D. 1977, University of Michigan
- Webster, Otis (1976) . . . . . Assistant Professor of Education  
& Associate Vice-President for  
Student Affairs  
B.S. 1965, Wiley College  
M.S. 1970, East Texas State University  
Ed.D. 1976, East Texas State University
- 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
- Williams, John R. (1976) . . . . . Assistant 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). . . . . Associate 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

## ASSOCIATE GRADUATE FACULTY

- 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
- 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
- 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
- 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

## ASSOCIATE GRADUATE FACULTY

- Clark, Mary (1970) . . . . . Associate Professor of Education  
 B.S. 1954, Prairie View A&M University  
 M.Ed. 1969, Prairie View A&M University
- Clark, Ross D.(1972) . . . . . Associate Professor of Education  
 B.S.1960, Texas Tech University  
 M.S. 1964, Sul Ross University
- Curtis, Wilson A. (1966). . . . . Associate Professor of English  
 B.S. 1951, Sam Houston State University  
 M.A. 1960, University of Houston  
 Further Study: University of Houston, Prairie View A&M University
- 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
- 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
- Dickson, Jerry Douglas (1975) . . . . . Associate Professor of Education  
 B.S.1965, North Texas State  
 M.S. 1967, North Texas State
- 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
- 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
- Harper, Joseph W. (1978) . . . . . Associate Professor of Education  
 A.A. 1945, Weatherford College  
 B.S. 1946, Southwest Texas University  
 Ed.D. 1964, North Texas State University
- 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
- Hicks, Raymond (1974) . . . . . Associate Professor of Education  
 B.A. 1968, Grambling College  
 M.A. 1971, Louisiana State University  
 Ph.D. 1972, Illinois University
- 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
- Humphrey, James (1977). . . . . Associate Professor of Business  
 BBA 1970, Texas Southern University  
 Further Study: University of Houston
- 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

## ASSOCIATE GRADUATE FACULTY

- Lee, Theodore (1975) . . . . . Associate Professor of Education  
 B.A. 1950, Jarvis Christian College  
 M.Ed. 1957, North Texas State University
- Moore, Charles (1973) . . . . . Associate Professor of Education  
 B.S. 1943, Fisk University  
 M.A. 1950, Fisk University
- McClendon, Samuel (1977) . . . . . Associate Professor of Education  
 B.S. 1970, Paul Quinn College  
 M.A. 1974, Virginia State University  
 Ph.D. 1977, East Texas State University
- McDonald, Lucy Davis (1974). . . . . 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
- Plyler, Royce W. (1972) . . . . . Associate Professor of Business  
 B.A. 1953, University of Texas  
 M.B.A. 1956, University of Texas
- Poindexter, Jimmie LeRuth (1971) . . . . . Associate Professor of Sociology  
 B.A. 1955, Prairie View A&M University  
 M.S.W. 1957, Howard University
- Randle, Charles F. (1963) . . . . . Associate Professor of Education  
 B.S. 1949, Prairie View A&M University  
 M.S. 1950, Prairie View A&M 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
- Summers, Ruby (1970) . . . . . Associate Professor of Education  
 B.A. 1950, Texas Southern University  
 M.A. 1955, Texas Southern University  
 Further Study: University of Houston
- Wadhwa, Darshan L. (1973) . . . . . Associate Professor of Business  
 B.S. 1964, Agra University, India  
 M.S. 1967, Roorkee University, India  
 M.B.A. 1972, Louisiana Tech University  
 Further Study: Louisiana Tech University, Texas A&M University
- Willhelm, Edgar O. (1979). . . . . Associate Professor of Education  
 B.S. 1955, University of Houston  
 M.Ed. 1968, University of Houston  
 Ed.D. 1972, East Texas State University
- 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 attempts to serve the citizens of Texas at the points of their 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.

### PHILOSOPHY AND OBJECTIVES

Historically the philosophy of Prairie View A&M has been to assist each student in living a worthwhile life and making a worthwhile living.

This philosophy is accomplished through the following aims and objectives:

1. To develop responsible citizens who will contribute to the democratic life.
2. To develop a community of scholars.
3. To provide an environment where students may achieve the optimal personal and social development.
4. To provide for the maximum intellectual development of the student.
5. To provide each student with saleable skills in a vocation or group of vocations.
6. To inspire each student to become a leader in his generation.
7. To assist each student to make the best use of his resources in college and later life.
8. To assist each student in becoming an over-achiever.
9. To develop in each student a moral concern for others and a concept of service to others.
10. To have the entire campus (including residence halls) serve as a center of learning as well as a center of wholesome democratic living.

## GENERAL INFORMATION

### 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.

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.



## GENERAL INFORMATION

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 situation; 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 the following:

Building	Date Completed	Costs
Fire Protection and Security	1971	\$140,000
Laundry Building	1973	821,000
Burlington-Ware ROTC	1973	226,918

The value of the physical plant has increased from \$12 million in 1966 to \$40 million in 1978. 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 \$171,867.91. A half million dollar addition was completed in 1968.

The building has three floors and a book stack section with five levels. The library has a book capacity of 301,000 volumes, and study space for 800 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 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 various collections of the library contain 185,000 books, 2,700 bound magazines, 4,500 unbound journals, 67,901 uncatalogued documents, 2,749 pictures, as well as numerous films, filmstrips, maps, microcards, microfilms, phono records and slides.

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.

# STUDENT FINANCIAL AIDS

## A. D. James, 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.

## UNIVERSITY 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.

**NURSE TRAINING LOANS** Long-term, low interest loans are available under the Nurse Training Act of 1964 for students enrolled in approved nursing programs leading to a diploma or degree. The maximum loan for an academic year is \$2,500, up to an aggregate loan amount of \$10,000. The borrower has the opportunity to cancel up to 85% of the loan over a three-year period as a professional nurse in certain designated areas of service.

**ACADEMIC STATUS**

1. One must be a full-time student enrolled in a school having a Loan Fund established under the Nursing Student Loan Program, or must have been accepted for enrollment as a full-time student.
2. One must be engaged in pursuing a course of study leading to a baccalaureate or associate degree in nursing.
3. One must be in good standing and capable of maintaining such standing.

The maximum amount available to an individual borrower in an academic year or its equivalent is \$2,500.00.

**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. Gradu-

## GENERAL INFORMATION

ate 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.

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.

## SCHOLARSHIPS

**THE CHARLES T. AND KATIE B. BRACKINS SCHOLARSHIP GRANT.** The University has a scholarship agreement with an Advisory Board of the Mercantile National Bank of Dallas whereby Mrs. Eloise M. Willis, grantor, makes funds available in the amount of two \$500.00 loans per year in honor of the late Charles T. and Katie B. Brackins, respected and beloved citizens of the City of Dallas. The Advisory Board chooses the recipients from those candidates who can qualify for its consideration. A primary prerequisite is that the applicant must be a graduate of a school of the Dallas Independent School District. Inquiries in regard to the grant may be directed to the Dallas High School Principal of Lincoln High School, Washington Technical High School, Madison High School, or to the Director of Financial Aids at Prairie View A&M University, Prairie View, Texas 77445.

# 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

## GENERAL INFORMATION

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 1979-80

(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.) . . . . .	30.00	30.00	30.00
**Building Use Fee . . . . .	97.75	97.75	97.75
Library Building Use Fee . . . . .	4.00	4.00	4.00
Room Rent 1st Semester . . . . .	345.00	295.00	270.00
Board & Laundry (Fee Through December) . . . . .			
Tax included \$21.50 . . . . .	491.50	491.50	491.50
I. D. Card . . . . .	4.00	4.00	4.00
Student Health . . . . .	15.00	15.00	15.00
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 . . . . .	1,055.25	1,005.25	980.25
New Students . . . . .	1,090.25		

\*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.

#### 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, 1973) to remain in effect until changed by order of the Board of Directors, 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



## GENERAL INFORMATION

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), membership in the Y.M.C.A. or Y.W.C.A., 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 \$30.00) . . . . . \$ 2.50  
Student Service Fee Per Term Hour (Maximum \$12.00) . . . . . \$ 2.00

### Student Health Fee

Regular Session (Per Semester) . . . . . \$ 15.00  
Summer Session (Per Six Week Session) . . . . . \$ 7.50

### 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 . . . . . \$345.00  
Fuller and Banks . . . . . 295.00  
All Other Dormitories . . . . . 270.00

### Board and Laundry Per Month

(Board \$107.50, Laundry \$10.00 and Tax \$5.38) . . . . . 122.88  
Laundry Per Semester . . . . . 40.00  
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, \$130.00; Board, \$160.00; Laundry, \$15.00; Tax \$8.00) . . . . .	\$313.00
(Fuller and Banks — Room Rent, Board, Laundry, and State Tax (Room Rent, \$108.00; Board, \$160.00; Laundry \$15.00; Tax, \$8.00) . . . . .	\$291.00
All other Dormitories — Room Rent, Board, Laundry, and Tax (Room Rent, \$95.00; Board, \$160.00; Laundry, \$15.00; Tax, \$8.00). . . . .	\$278.00

Graduate Students Only — Room Rent and Laundry for Summer Session

Holley and Drew:	
Per Term of Six Weeks . . . . .	\$130.00
Per Term of Three Weeks . . . . .	65.00
Per Term of One Week . . . . .	21.67
Fuller and Banks:	
Per Term of Six Weeks . . . . .	108.00
Per Term of Three Weeks . . . . .	54.00
Per Term of One Week . . . . .	18.00
All Other Dormitories:	
Per Term of Six Weeks . . . . .	95.00
Per Term of Three Weeks . . . . .	47.50
Per Term of One Week . . . . .	15.83

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.**

**FEES FOR NURSING STUDENTS  
ENROLLED IN THE HOUSTON CLINICAL AREA  
PRAIRIE VIEW A&M UNIVERSITY**

	Day Students
Tuition . . . . .	\$ 50.00
Student Service Fee (Required) . . . . .	30.00
Library Building Use Fee . . . . .	4.00
Identification Card . . . . .	4.00
<b>TOTAL FEES</b>	<b>88.00</b>

**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:

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

## GENERAL INFORMATION

### 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.

**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.**

## GENERAL INFORMATION

### 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 \$30.00.
- C. For all semester hours under twelve, the fee is determined by the number of hours enrolled times \$2.50.

### 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 .....	\$345.00	Drew Hall .....	\$345.00
Fuller Hall .....	\$295.00	Banks Hall .....	\$295.00
Alexander Hall .....	\$270.00	Collins Hall .....	\$270.00

### VI. Board and Laundry

Presently the University is charging a fee as indicated below:

Board .....	\$430.00
Laundry .....	40.00
State Sales Tax .....	21.50
TOTAL	\$491.50

### 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. 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 — 1979-80

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 Admissions . . . . .	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 (MB) Degree must be acceptable.

- 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 15 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.

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.

**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.

**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	
Economics	MA
Geography	MA
	(Proposed)
Department of English	
English	MA
Department of History	
History	MA
Department of Mathematics	
Mathematics	MS
Department of Music	
Music Education	MA
Applied Music	MA
Theory	MA



## GRADUATE SCHOOL

Division of Natural Sciences		
Department of Biology		MS
Department of Chemistry		
Chemistry		MS
Department of Physical Education		
Health and Recreation		MS
Department of Political Science		
Political Science		MA
Department of Sociology		
Sociology		MA
College of Business		
Business Administration (Undif.)		MBA
Accounting		MBA
Business Administration		MBA
Business Education		MBA
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
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	Social Studies	
Chemistry	Education Diagnostician	
Health-Physical Education	Reading Specialist	
History	Mathematics Education	
Industrial Arts	Biology	
Special Services		
Counselor		
Supervisor		
Administration		
Vocational	Endorsements	
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 Degree Plan form requested by student from	Advisor	Prior to each registration.
Candidacy Forms requested by student from	Graduate School or advisor	During his first semester of enrollment
Thesis, creative work, or Field Conference	Graduate School or advisor	Upon the completion of 12 semester hours of work.
Comprehensive examination registration	Thesis Advisor	After admittance to candidacy
Application for Graduation. Student submits application forms to the	Department Head	After completing 15 semester hours
Submit Final Copies of Thesis	Graduate School	Beginning of semester in which you plan to graduate.
Commencement exercises information will be distributed to applicants.	Graduate School	No later than two weeks before graduation
	Registrar's Office	For participation in spring and summer graduation exercises

**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.

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.

## GRADUATE SCHOOL

- 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 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. The following directions should be rigidly followed in the writing of the thesis.

The thesis should be typewritten double-spaced on a durable rag bond, 8½ x 11 inches, leaving the left hand margin at least an inch and a quarter wide, the right-hand margin at least three-quarters of an inch. Set up the title page according to the following form:

TITLE OF THESIS  
A Thesis  
Presented to the Graduate School  
of Prairie View A&M University  
In Partial Fulfillment of the  
Degree of  
Master of \_\_\_\_\_  
By  
(Author's Name in Full)  
(Date on which degree is to be conferred)

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.

## 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.

## GRADUATE SCHOOL

### 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 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

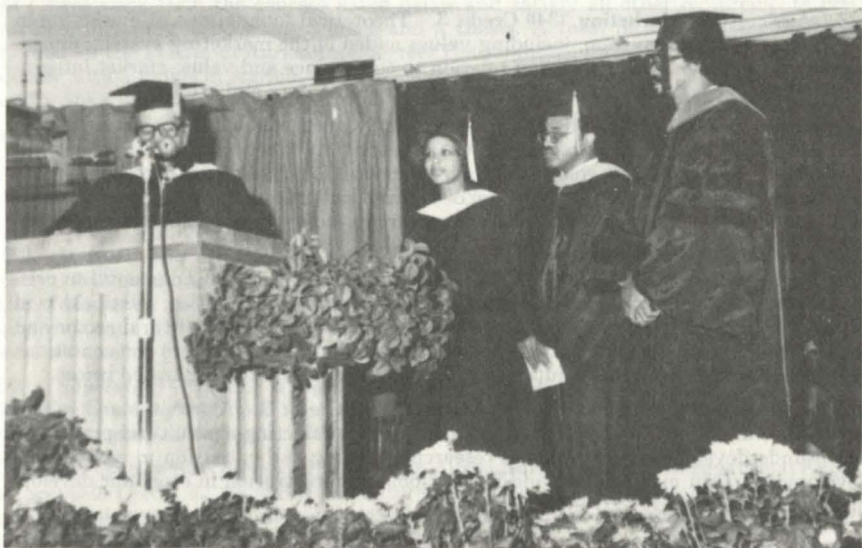
The student load of teachers employed full-time may not exceed six semester hours or equivalent per semester.

### 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.



# GRADUATE

## College of Agriculture

F. L. Richards, 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 Extension Education. The Master of Education degree (M.Ed.) is also offered in Agricultural 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.

### DEPARTMENT OF AGRICULTURAL ECONOMICS (AgEc)

Alfred L. Parks, Head

1977-78 Faculty

Bobby, Mixon, Thaddeaus McDonald

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. Agricultural Marketing. (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. Agricultural Prices. (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 effect agricultural prices; futures trading; parity prices; administrated prices.

**723. 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.

**733. Agricultural Firm Organization and 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. Economics of Natural Resource Development. (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.

## DEPARTMENT OF AGRICULTURAL EDUCATION AND EXTENSION EDUCATION

C. L. Strickland, Sr.

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 write a paper directly related to his major.

### 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 in Agriculture. (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.



## GRADUATE SCHOOL

543. **Advanced Methods in Agricultural Education.** (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 and Programs.** (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 specialized 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 for Rural Youth.** (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 of Vocational Education.** (AgEd 643 Principles) (3-0) Credit 3. The historical development 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 education, 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.

# DEPARTMENT OF SOIL SCIENCE

## Faculty

J. B. Collins, 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.
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 in Relation to Soil Formation. (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 Problems of Savanna-Prairie 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. The 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 Use. (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, Morphology 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 Interpretations 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.

## DEPARTMENT OF ANIMAL SCIENCE

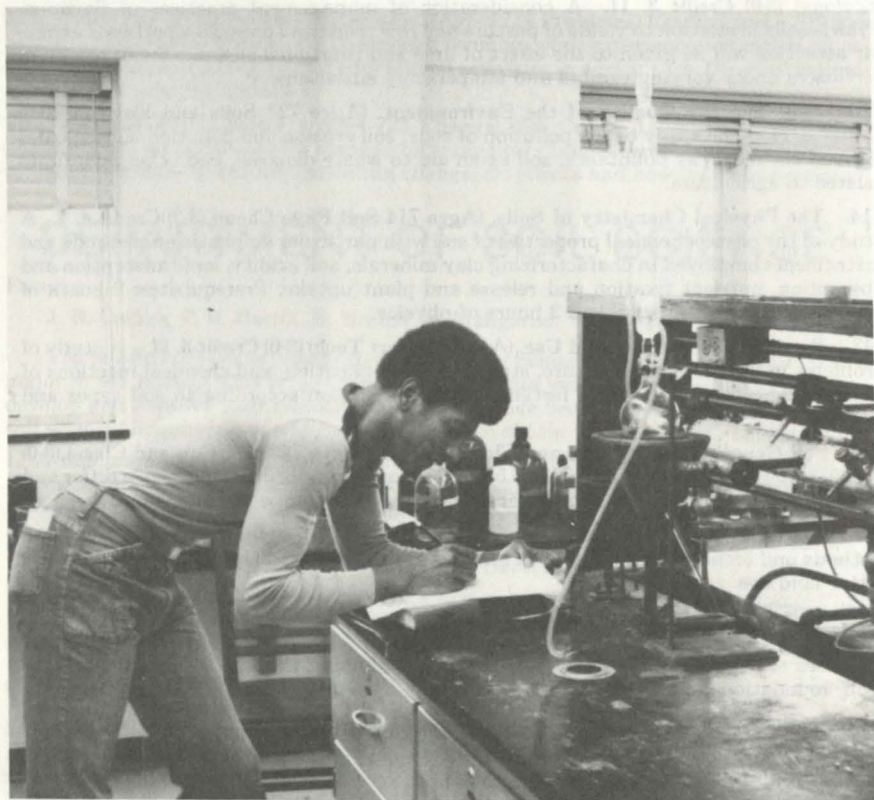
### Faculty

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

The Department of Animal Science offers one Graduate level Course. The Research Program in the Department offers the graduate student in others 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.



# GRADUATE OFFERINGS

## College of Arts & Sciences

### ECONOMICS

Majors and minors are offered in the Department of Economics on the Graduate Level. Students desiring to major or minor in Economics should consult with the Head of the Department and plan a program in conjunction with the major professor.

The graduate courses in Economics permit intensive research and study in the subject matter areas of the various departments of the Social Sciences.

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.

A major in Economics is required to take at least 21 semester hours of course work in Economics. A minor in Economics is required to take a minimum of 9 hours in Economics.

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

To minor in economics, the student should submit a minimum of 9 semester hours of undergraduate credit in economics.

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.

### DESCRIPTION OF COURSES

#### ECONOMICS

**503. Human Resources Development. (Econ 503 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.

**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

## COLLEGE OF ARTS AND SCIENCES

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 Mgnt) (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. Demographic and social aspects of human life with attention on concomitant problems. Emphasis is placed on published research. The student is required to plan and implement a research investigation on an area covered in the course.

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

## 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, land-forms, 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.

# GRADUATE OFFERINGS

## ENGLISH

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

### I. 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.

# GRADUATE OFFERINGS

## College of Arts and Sciences

### HEALTH & PHYSICAL EDUCATION

#### REQUIREMENTS FOR MASTERS 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 Activities:

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, analyzing and evaluating community action programs in health; local schools and communities are used as a laboratory in studying problems.

## GRADUATE OFFERINGS

### HISTORY

Teacher Education and Liberal Arts Programs are offered in the Department of History. 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 theses as early as possible in the first semester of residence. The minor program of study will be arranged by the student and the major professor with the view of keeping the two reasonably related. The program of study and the area of theses interest, to be approved by the Department of History, 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.

All students are required to take History 563, arrangements should be made to take this course as early as possible after the beginning of work for the Master's degree.

Twenty hours of satisfactory work is required for a major in the field of History, and twelve hours for the minor. The satisfactory completion of 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. Minors in this field are allowable only if the candidate can demonstrate that the techniques of this field are necessary for his research project or that the Minor Field is reasonably associated with Major specialty in content and orientation.

Prerequisites for majoring or minoring in the field of History are: (a) Lower college courses in American and European History corresponding to the lower college offering in the field at Prairie View; (b) At least 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) Preliminary to the graduate regulation on candidacy for the degree, no person shall be acceptable for pre-candidacy status if by the end of the first semester he has not shown the proper inclination to master the skills and attitudes attendant upon graduate study.

The Teacher Education program at the professional level leads to the M.Ed. degree and consists of the successful completion of a composite program of thirty-six (36) hours. The thirty-six hours are a composite of all of the following major fields in the social sciences in the following order: History 6 hours; Economics 3 hours; Geography 3 hours; Sociology 3 hours. The building of research techniques in social sciences will encompass five hours of class and seminar work. The resources area of history will include six (6) hours and the professional development area of education will also include six (6) hours.

In lieu of the thesis there will be a series of studies, the culminating one to be presented as evidence of research proficiency centered either in the problem areas of the "Nature of the Learner," "School and Community Relations," or "Instructional Prob-

lems." There should be an element of consistency in the program of studies as well as the research problems developed by the student in consultation with the departmental advisors for teacher education, and the program with its emphasis should be filed with the student's departmental records as early in the development of studies as possible. Because of the nature of this subject area, the department offers no minors in this field of study.

### 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 offerings in History

#### PROFESSIONAL DEVELOPMENT (6)

Education	583	Secondary School Curriculum
	673	Methods of Teaching Secondary School Subjects

#### 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

### SOCIAL STUDIES

#### (Professional)

#### SPECIALIZATION (18)

History (6 hours from:)	583	History of Civilization to 1500
	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 (3 hours from:)	743	Capitalism and Socialism
	773	Economic Theory and Social Policy
Geography (3 hours from:)	603	Geography of Texas
	613	Geography for Teachers
	713	Geography in Education
	723	Geography in Education
Government (3 hours from:)	513	American Local Rural Government
	523	Municipal Government
Sociology (3 hours from:)	803	Comparative Cultures and International Relations
	643	Modern Social Problems

#### PROFESSIONAL DEVELOPMENT (6)

Education	503	Principles of Secondary Education
	583	Secondary School Curriculum
	673	Methods of Teaching Secondary School Subjects

#### 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

## 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 Revoltn) (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.

## GRADUATE Mathematics

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 Rdnng 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; geometrics 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.

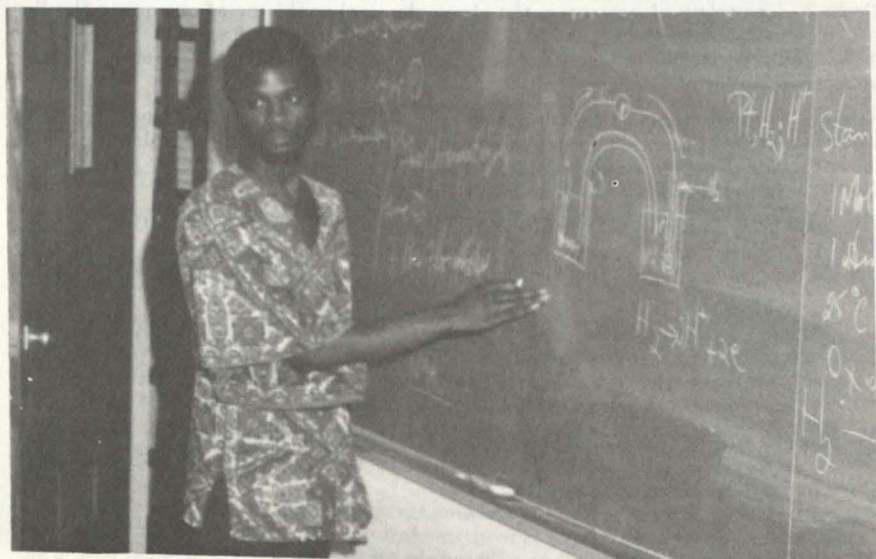
**843. Techniques of Research.** (Math 843 Research) (3-0) Credit 3. Study of research in mathematics education, the sources of information and techniques available, and approved form and style in preparation of research reports and thesis.

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



# GRADUATE OFFERINGS

## MUSIC

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 theory, applied music or music education.

### 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

**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.

## THEORY

12 to 15 hours — 30 hours total for degree

1. Thesis: A written literary work involving original research or an arrangement of a work, or an original work for full symphony orchestra.
2. Student must include 953, 783 and 793 or 763.
3. Applied Music: (6 hours)  
Continuation of one's applied instrument
4. Minor cognate: Any one: —  
School Music  
Applied Music  
Music Literature

## DESCRIPTION OF COURSES

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-point 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.

## 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 P 30 hours total for degree)

**DESCRIPTION OF COURSES**

**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, Schiabin, etc., Contemporary Moderns including American Composers.

**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**

**Voice 613. (Musc 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. (Musc 623 Voice) Credit 3.** Four arias (Languages not specified).

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

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

612, 622, 712, 722, 812, 822, 912, 922. (Musc 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, contatas and oratorios — offered excellent practical opportunities for expression in part singing. A capella and accompanying singing. Participation required.

**INSTRUMENTAL MUSIC**

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

**Music 613, 623, 713, 723. (Musc 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;

# GRADUATE OFFERINGS

## NATURAL SCIENCE

The Division of Natural Sciences includes the Departments of Biology, Chemistry and Physics. Each Department has requirements for major and minor students.

### 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.

**Graduate Minor in Biology**

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

**DESCRIPTION OF COURSES**

**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.

## 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 course 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 numbers 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. Physiochemical 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 student 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 principals 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 nutritional and biochemical role of vitamins, amino acids, proteins, mineral 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) Credit 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.

## GRADUATE OFFERINGS

### SOCIOLOGY

#### 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.

#### 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 redirecting 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 Arranged. I or II.** Individual study and research on selected Sociological topics.

# GRADUATE OFFERINGS

## College of Business

The College of Business offers two graduate programs in Business: Master of Business Administration (MBA) and the Master of Science (M.S.) in Business Education.

### 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, grade-point ratio on approximately the last 60 semester hours and grade trend. (The academic record must meet minimum requirements of the Graduate School.)

2. Scores on the Graduate Management Admission Test (formerly the Admission Test for Graduate Study in Business) or the Graduate Record Examination.

Students who plan to enter the Master of Business Education program should earn a satisfactory score on the Graduate Record Examination and meet all other Graduate School admission requirements.

### 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.

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 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.

## GRADUATE SCHOOL

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 or serve as an elective in either of the degree programs.

\*Electives must be approved.

### 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.
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.

## DESCRIPTION OF COURSES

### ACCOUNTING

503. **Financial Accounting.** (AC 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.** (AC 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.

#### 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.



# GRADUATE OFFERINGS

## College of Home Economics

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.

## GRADUATE SCHOOL

- 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 analysis of research findings, vocational education changes and changes in contemporary society as related to the formulation of educational objectives, subject matter selection, method and organization, and the role of evaluation in the teaching-learning process. One major paper required.
- 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.



# GRADUATE OFFERINGS

## College of Industrial Education and Technology

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 Teaching). (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.

## GRADUATE SCHOOL

**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 OFFERINGS

## 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 educated 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.** This section includes both graduate and undergraduate programs, with appropriate courses designed for each. Upon satisfactory completion of this curriculum area, the student may be certified to teach grades 1-8 in the public school.
2. **Special Education.** This section includes both graduate and undergraduate programs, with separate schedules of courses designed for each level. The course offerings in this area require the student (both graduate and undergraduate), 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. In the case of the graduate hours, a major in Mental Retardation may be pursued. A new program with certification as Educational Diagnostician may be had upon the completion of 42 semester hours. It is expected that this will be accepted in 1976 as a full degree granting program.
3. **Kindergarten or Early Childhood Education.** This section involves the Graduate program leading to an endorsement for the elementary certificate. Twelve hours are required for this endorsement in Early Childhood Education.
4. **Guidance and Counseling.** This program at the graduate level, 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. This section also offers the graduate components in psychology and educational measurement.
5. **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.

### 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) has satisfactorily demonstrated proficiency in English usage and has satisfied all the classification requirements of the university.

## GRADUATE SCHOOL

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.

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 Division of Education are urged to avail themselves of advisement by an appointed advisor on the department level.



# GRADUATE OFFERINGS

## College of Education

### DEPARTMENT OF COUNSELOR EDUCATION

1978-79 Faculty

John Beasley, Carl Briley, Raymond Carreathers, Jerry Dickson, Harold Fillyaw, I. C. Gordon, Arreader Guidry, Raymond Hicks, Ruby Summers, George Stafford, Waymon Webster, Neta Wylie.

The Master's Degree Program in counselor education at Prairie View A&M University incorporates a blend of academic knowledge, acquisition and enhancement of skills, and application in laboratory experiences. The program at the master's level is designed to give professional preparation for students desiring employment as counselors in public schools, vocational technical schools, higher education institutions, community and other service agencies. Upon the completion of the counselor education program, the graduate may receive a Professional Certificate in Counseling.

#### 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 Options

Based upon the applicant's preassessment results, one may take prerequisites to the area of concentration, or may begin formalized training in one of the following 36 semester hour curricula: (1) Guidance with endorsement in Secondary School Counseling (2) Guidance with endorsement in Vocational Counseling, (3) Guidance with emphasis in Elementary School Counseling, (4) Guidance with emphasis in Special Education.

#### SUGGESTED CURRICULUM FOR A MAJOR IN GUIDANCE WITH ENDORSEMENT IN SECONDARY SCHOOL COUNSELING

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

Guidance 643 — Foundations of Guidance and Counseling	3 hrs.
Psychology 533 — Fundamentals of Statistics	3 hrs.
Psychology 513 — Psychological Testing	3 hrs.
Psychology 603 — Theory and Technique of Counseling	3 hrs.
Guidance 713 — Group Dynamics	3 hrs.
Psychology 733 — Advanced Educational Psychology	3 hrs.
Psychology 533 — Psych. of Adjustment	3 hrs.
Psychology 593 — Human Growth and Development	
Guidance 653 — Career Dev. Theory, Vocational, Occup. & Educ. Inf.	3 hrs.
Guidance 683 — Org. & Adm. of a Guidance Program	3 hrs.
*Guidance 603 — Supv. Pract. in Coun. & Guid. in the Secondary Schools	3 hrs.
Education 843 — Tech. of Educ. Research (M.Ed. Degree)	
or	
Guidance 863 — Thesis Seminar in Guidance (M.S. Degree)	3 hrs.
Education 853 — Thesis and Project Research (M.Ed. degree)	
or	
Guidance 873 — Thesis research in Guidance (M.S. degree)	3 hrs.
	36 hrs.

\*Pre-requisites: (Guid. 643, Guid. 683, Psy. 603, Psy. 593 or Psy. 733.)

## GRADUATE SCHOOL

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

Prerequisite: 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. 823 — History and Principal or Vocational Educ. ....	3 hrs.
Psychology 533 — Fundamentals of Statistics .....	3 hrs.
Psychology 513 — Psychological Testing .....	3 hrs.
Psychology 603 — Theory & Tech. of Counseling .....	3 hrs.
Guidance 713 — Group Dynamics .....	3 hrs.
Psychology 733 — Advanced Education Psych. ....	3 hrs.
I.E. 833 — Voc. Educ. Information .....	3 hrs.
I.E. 813 — Plan & Org. Prog. of Voc. Guid. ....	3 hrs.
*Guidance 603 — Supv. Pract. in Coun. & Guid. in Sec. Schl	3 hrs.
Education 843 — Tech. of Educ. Res. (M.Ed. degree)	
or	
Guidance 863 — Thesis Sem. in Guid. (M.S. degree) .....	3 hrs.
Educ. 853 — Thesis and Proj. Res. (M.Ed. degree)	
or	
Guidance 873 — Thesis Res. in Guidance (M.S. degree) .....	3 hrs.
Psychology 593 — Human Growth and Dev.	
or	
Psychology 553 — Psych. of Adjustment .....	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. 643, Guid. 683, Psy. 603, Psy. 593 or Psy. 733).

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

Guidance 643 — Foundations of Guid. and Counseling .....	3 hrs.
Psychology 533 — Fund. of Statistics .....	3 hrs.
Psychology 513 — Psych. Testing .....	3 hrs.
Psychology 603 — Theory and Tech. of Counseling .....	3 hrs.
Guidance 713 — Group Dynamics .....	3 hrs.
Sp.Ed. 603 — Surv. in Educ. of Excep. Children .....	3 hrs.
Sp.Ed. 633 — Psych. Prob. of Mentally Retarded Children .....	3 hrs.
Guidance 653 — Career Dev. Theory, Voca., Occup. and Educ.	
Information .....	3 hrs.
Guidance 683 — Org. and Admin. of Guidance Program .....	3 hrs.
Education 843 — Tech. of Education Res. (M.Ed. degree)	
or	
Guidance 863 — Thesis Sem. in Guidance (M.S. degree) .....	3 hrs.
Education 853 — Thesis and Proj. Research (M.Ed. degree)	
or	
Guidance 873 — Thesis Research in Guidance (M.S. degree) .....	3 hrs.
*Guidance 613 — Supv. Pract. in Coun. & Guid. in the Elem. Schol. ....	3 hrs.
	36 hrs.

\*Pre-requisites: (Guid 643, Guid. 683, Psy. 603, Psy. 593 or Psy. 733)

### SUGGESTED CURRICULUM FOR A MAJOR IN GUIDANCE WITH EMPHASIS IN ELEMENTARY GUIDANCE

Prerequisites: Legal certificate valid for appropriate grade level and three years of successful teaching experience on appropriate level.

Guidance 643 — Foundations of Guidance & Counseling .....	3 hrs.
Psychology 533 — Fundamentals of Statistics .....	3 hrs.
Psychology 513 — Psychological Testing .....	3 hrs.
Psychology 603 — Theory and Tech. of Counseling .....	3 hrs.
Guidance 773 — Guidance in the Elem. School .....	3 hrs.
Guidance 713 — Group Dynamics .....	3 hrs.
Psychology 593 — Human Growth and Development .....	3 hrs.
Guidance 653 — Career Dev. Theory and Dev. and Ed. Inf. ....	3 hrs.
Guidance 683 — Org. & Adm. of Guid. Prog. ....	3 hrs.
*Guidance 613 — Supv. Pract. in Coun. & Guid. in the Elem. School. ....	3 hrs.
Education 843 — Tech. of Educ. Res. (M.Ed. degree)	
or	
Guidance 863 — Thesis Seminar in Guid. (M.S. degree) .....	3 hrs.
Education 853 — Thesis & Project Research (M.Ed. degree)	
or	

Guidance 873 — Thesis Research in Guid. (M.S. degree)..... 3 hrs.

36 hrs.

\*Pre-requisites: Guid. 643, Guid. 683, Psy. 603, Psy. 593 or Psy. 733).

## SUGGESTED CURRICULUM FOR A MINOR

### IN GUIDANCE

Guidance 683 — Org. and Admin. of Guid. Prog. .... 3 hrs.

Guidance 643 — Found. of Guid. & Coun. .... 3 hrs.

Psychology 593 — Human Growth & Dev.

or

Psychology 733 — Adv. Educ. Psych. .... 3 hrs.

Psychology 603 — Theory & Tech. of Coun..... 3 hrs.

12 hrs.

## DESCRIPTION OF COURSES

### 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.

## 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.

**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.

# GRADUATE OFFERINGS

## College of Education

### THE DEPARTMENT OF CURRICULUM AND INSTRUCTION

**Alvin Brossette, Jr., Head**

1979-80 Graduate Faculty

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

The Department of Curriculum and Instruction 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 AREA

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, 643, 683, 723, 743, 753, 763, 773, 883 . . . . .	3 hours each
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#### 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 A MINOR IN ELEMENTARY EDUCATION

##### PREREQUISITES:

Psychology 593 — Pupil Growth and Development . . . . .	3 Hrs.
Education 633, 683, 753, 763 . . . . .	12 Hrs.

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

## GRADUATE SCHOOL

### PREREQUISITES:

Psychology 593.....	3
Education 523.....	3
Kindergarten Educ 813, 823, 833, 863, 873.....	15 hrs.

### SUGGESTED CURRICULUM FOR A SPECIALIZATION IN SPECIAL EDUCATION (Mentally Retarded)

#### PREREQUISITES:

Psychology 593.....	3 Hrs.
Education 523.....	3 Hrs.
	TOTAL.....
	6 Hrs.
Special Education 603, 613, 633, 913.....	12 hrs.

### SUGGESTED CURRICULUM FOR A SPECIALIZATION IN SPECIAL EDUCATION (Language Learning Disabilities) (Provisional Certificate)

#### PREREQUISITES:

Psychology 593.....	3 Hrs.
Education 523.....	3 Hrs.
	TOTAL.....
	6 Hrs.
Special Education 603, 833, 843, 933, 943.....	15 hrs.

## 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. Multi-Cultural Education. (Educ 823A Multi-Cult Ed) (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 advisors' 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

**743. Problems of the Elementary Teacher. (Educ 743 Elem Prob) (3-0) Credit 3.** Open to undergraduates who are in-service teachers 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

**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 suggest acceleration in various subject areas; identifying curriculum sources.

**833. Trends in Kindergarten Education. (Ked 833 Trends in Kndgn 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 Practicum I Kndgn Educ) (3-0) Credit 3.** This course is designed to provide field experiences in Early Childhood Education; identify use and limitation of observation; characteristics of classroom groups, clinical assessment techniques; interpersonal relationships.

**873. Practicum II Kindergarten Education; (Ked 873 Practicum II Kndgrn Educ) (3-0) Credit 3.** To provide extended field experiences and practices in clinical remediation; program development and implementation; classroom management; innovate programs practices; program evaluation, and internship involving micro-teaching. (media)

## GRADUATE SCHOOL

### SECONDARY EDUCATION

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 Cur) (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.

### SUGGESTED CURRICULUM FOR: READING SPECIALIST PROGRAM (All-Level Certificate)

### ACADEMIC SPECIALIZATION (12 Semester Hours)

Education 623 or 633, 653, 663, 803 ..... 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 (or)  
Education 633 — Reading in the Elementary School. .... 3 Hrs.

TOTAL ... 6 Hrs.

#### PROFESSIONAL DEVELOPMENT (For Elementary School Certificate Holders)

Psychology 593 — Growth and Development Patterns of Adolescents ..... 3 Hrs.  
Education 693 — Methods of Teaching Secondary Reading ..... 3 Hrs.

(\*May be used as electives)

TOTAL ... 6 Hrs.

### RESEARCH (6 or more semester hours)

Education 843 — Techniques of Research ..... 3 Hrs.  
Education 853 — Project and/or Thesis ..... 3 Hrs.

TOTAL ... 6 Hrs.

### DESCRIPTION OF COURSES

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.

643. Psychology of Reading. (Educ 643 Psy Read) (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 Reas 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 in reading as well as the cause of the 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.

**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.

## GRADUATE OFFERINGS

### DEPARTMENT OF EDUCATIONAL ADMINISTRATION AND SUPERVISION

**Louis L. Aikens, Head**

1979-80

Yong Chung, Jerry Dickson, Harry Hendricks, Don Hestand, Thomas Jenkins, Theodore Lee, Jr., Charles Moore, Charles Randle, Gerald Slater, Iredell Starling, Curtis Thomas, Willie Trotty, Sam Urban.

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

## GRADUATE SCHOOL

### 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 .....	
<b>Total Credit Hours</b>	<u>9</u>

### 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**

Required Courses (15 Semester Hours)

Administration 523, 613, 703, 763, 833.....	15
Total Credit Hours	15

**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.

**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

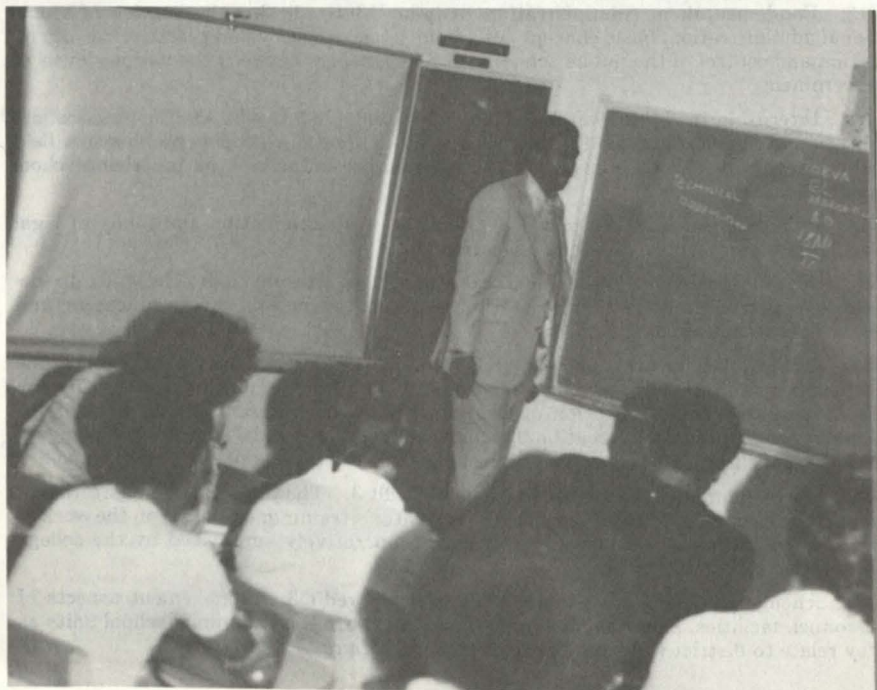
**643. Elementary School Supervision. (Supervision 643) Credit 3.** Study of important developments in elementary education with particular attention given to methods and materials which may be used to improve the development of pupils in elementary schools. Problems which are encountered in day-to-day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

**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.



# GRADUATE OFFERINGS

## College of Education

### EDUCATIONAL TECHNOLOGY

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.
Educational Technology 553 — Organization and Services of Libraries .....	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

##### EDUCATIONAL TECHNOLOGY

**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.

## GRADUATE SCHOOL

- 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.
- 553. Organization and Services of Libraries. (ET 553 Organization). (3-0) Credit 3.** Presents the principles of classification, cataloging and reference services with libraries.
- 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.

# GRADUATE TEACHER EDUCATION PROGRAMS

## 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

## SPECIAL EDUCATION (MENTALLY RETARDED)

(Provisional Certificate)

### SPECIALIZATION Graduate Courses Available for Provisional Endorsement

	833	Current Trends in Early Childhood Education
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## GRADUATE SCHOOL

- 863 Practicum I in Kindergarten Education  
873 Practicum II in Early Childhood 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

### CHEMISTRY

#### (Professional)

#### 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**

- |            |     |                                     |
|------------|-----|-------------------------------------|
| Psychology | 623 | Development of the Pre-School Child |
|            | 813 | Kindergarten Methods and Materials  |
|            | 823 | Seminar in Kindergarten Curriculum  |
| 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                       |

## GRADUATE SCHOOL

### 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
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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  
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



## GRADUATE SCHOOL

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	683	Community Planning for Health
	613	Individual Physical Education
	623	Physiology fo Muscular Exercise
	653	Administrative Problems in Physical Education
	723	Kinesiology
	733	Supervision in Physical Education

**RESOURCE AREA (6 semester hours)****Electives (6 semester hours)**

HE	673	Nutrition and Health
	583	Rural Health Problems

Psychology	563	Mental Hygiene
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**PROFESSIONAL DEVELOPMENT (6 semester hours)**

Psychology	593	Human Growth and Development
Education	693	Methods of Teaching Health and Physical Education

Sociology (6 semester hours)	823	Multicultural Education
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**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
	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

## GRADUATE SCHOOL

### 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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## 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

## GRADUATE SCHOOL

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

### 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:

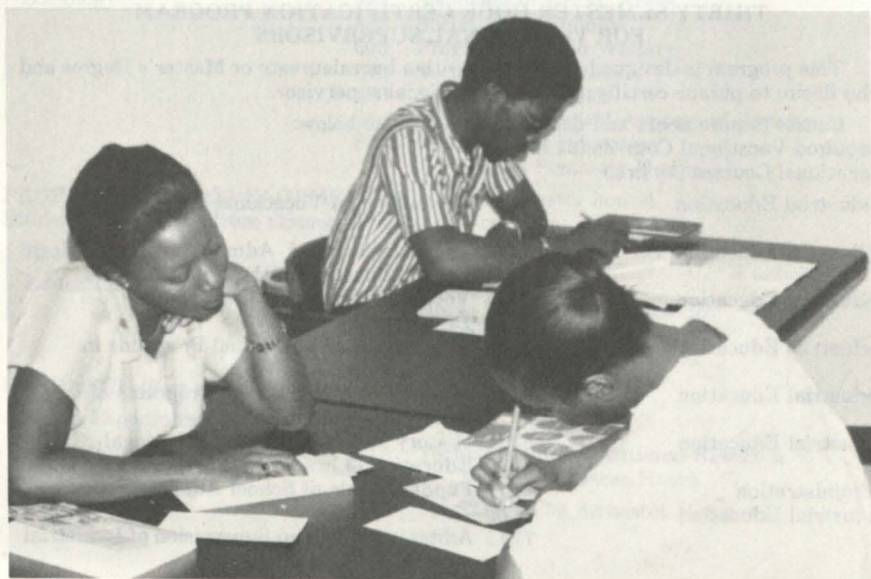
Required Vocational Courses (21 hrs.)

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 —	
	713	Administration and Supervision of Industrial

## GRADUATE SCHOOL

Industrial Education		Arts Education
	— or —	
Industrial Education	570	Selection, Placement and Follow-up in Vocational Education
	— or —	
Supervision		
Supervision	753	Principles and Practices of Supervision
	663	High School Supervision
	733	Supervision Practicum
Education (Required)	823	Multicultural Education



# OFFICE OF CAREER PLANNING AND PLACEMENT

## Brutus Jackson, Director

The Office of Career Planning and Placement assists the student, beginning with the freshman year, to plan 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.





# 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 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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