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OF THE
TEXAS TECHNOLOGICAL
COLLEGE

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VOL. VI.

FEBRUARY, 1930

No. 2



FIFTH ANNUAL CATALOGUE NUMBER
1929 - 1930

WITH

ANNOUNCEMENTS FOR 1930-1931

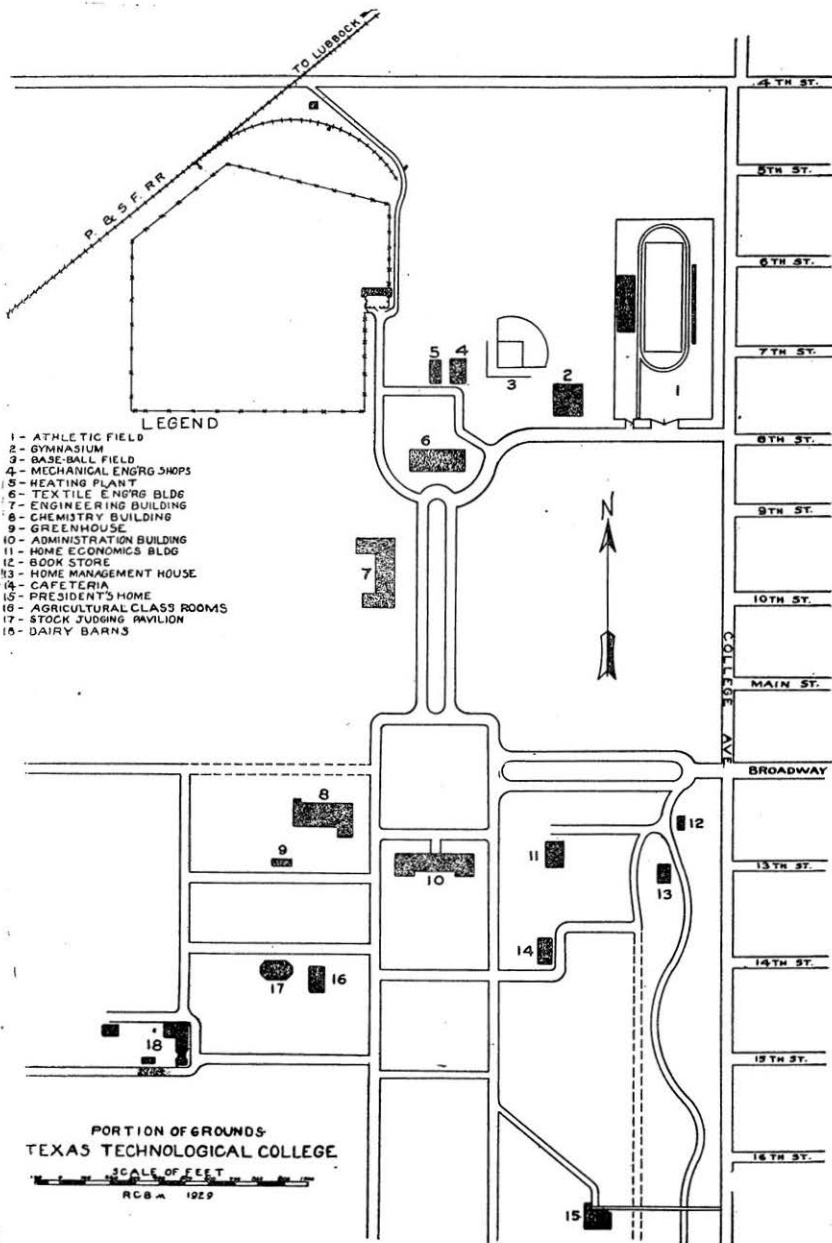
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LUBBOCK, TEXAS

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LUBBOCK, TEXAS

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COLLEGE CALENDAR
SOUTHWEST 1930
COLLECTION

March 17-18, Monday and Tuesday. Registration for spring term.

March 19, Wednesday. Recitations begin 8:00 a. m.

April 21, Monday. San Jacinto Day.

April 24, Thursday. Mid-term reports due in Registrar's office.

May 25, Sunday. Commencement Sunday.

May 26, Monday. Commencement Day.

May 26-30, Monday-Friday. Spring term examinations.

May 31, Saturday. Spring term reports due in Registrar's office.

June 2, Monday. Summer School begins.

August 22, Friday. Summer School closes.

SIXTH ANNUAL SESSION
1930

September 15-17, Monday-Wednesday. Entrance examinations.

September 17, Wednesday. Freshman orientation. All entering freshmen required to be present.

September 18-20, Thursday-Saturday. Registration.

September 19, Friday. "Open House" for all students by the churches of Lubbock.

September 20, Saturday. Reception of President and Mrs. Horn to the student body at 8:00 p. m., Administration building.

September 21, Sunday. Annual sermon.

September 22, Monday. Fall term classes begin at 8:00 a. m.

September 24, Wednesday. President's annual address.

September 29, Monday. Last day to register for full work.

October 6, Monday. Last day to register in fall term except by special permission from the dean.

November 4, Tuesday. Mid-term reports due in Registrar's office.

November 11, Tuesday. Armistice Day.

November 27-29, Thursday-Saturday. Thanksgiving, holidays.

December 15-19, Monday-Friday. Fall term examinations.

December 20, Saturday. Fall term grades due in Registrar's office.

December 21, Sunday. Christmas recess begins.

1931

- January 2-3, Friday-Saturday. Entrance examinations.
- January 2-3, Friday-Saturday. Registration for winter term.
- January 5, Monday. Recitations begin at 8:00 a. m.
- January 10, Saturday. Last day to register in winter term except by special permission from the dean.
- February 14, Saturday. Mid-term reports due in Registrar's office.
- February 22, Sunday. Washington's birthday.
- March 2, Monday. Texas Independence Day.
- March 16-20, Monday-Friday. Winter term examinations.
- March 21, Saturday. Registration for spring term.
- March 23, Monday. Winter term reports due in Registrar's office.
- March 23, Monday. Recitations begin at 8:00 a. m.
- April 21, Tuesday. San Jacinto Day.
- April 24, Thursday. Mid-term reports due in Registrar's office.
- June 1-5, Monday-Friday. Spring term examinations.
- June 6, Saturday. Spring term reports due in Registrar's office.
- June 7, Sunday. Commencement Sunday.
- June 8, Monday. Commencement Day.
- June 8-9, Monday-Tuesday. Summer School entrance examination.
- June 9, Tuesday. Summer School begins.

CALENDAR, 1930

JANUARY							FEBRUARY							MARCH							APRIL							
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	
				1	2	3	4						1							1				1	2	3	4	5
5	6	7	8	9	10	11	2	3	4	5	6	7	8	2	3	4	5	6	7	8	6	7	8	9	10	11	12	
12	13	14	15	16	17	18	9	10	11	12	13	14	15	9	10	11	12	13	14	15	13	14	15	16	17	18	19	
19	20	21	22	23	24	25	16	17	18	19	20	21	22	16	17	18	19	20	21	22	20	21	22	23	24	25	26	
26	27	28	29	30	31		23	24	25	26	27	28		23	24	25	26	27	28	29	27	28	29	30				
														30	31													

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

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

CALENDAR, 1931

JANUARY							FEBRUARY							MARCH							APRIL							
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	
					1	2	3	1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6	7
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18	19	20	21	22	23	24	22	23	24	25	26	27	28	22	23	24	25	26	27	28	19	20	21	22	23	24	25	
25	26	27	28	29	30	31								29	30	31					26	27	28	29	30			

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

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

OFFICERS OF THE BOARD

CLIFFORD B. JONES, Chairman-----Spur
R. A. UNDERWOOD, Vice-Chairman-----Plainview
ROSCOE WILSON, Treasurer-----Lubbock
W. T. GASTON, Secretary-----Lubbock

Term Expires 1931

CLIFFORD B. JONES-----Spur
ROSCOE WILSON-----Lubbock
HOUSTON HARTE-----San Angelo

Term Expires 1933

R. A. UNDERWOOD-----Plainview
RILEY STRICKLAND-----Amarillo
*C. G. COMEGYS-----McKinney

Term Expires 1935

FRANK E. CLARITY.....Fort Worth
MRS. F. N. DRANE.....Corsicana
JOHN W. CARPENTER.....Dallas



EXECUTIVE COMMITTEE

R. A. UNDERWOOD, *Chairman*
JOHN W. CARPENTER MRS. F. N. DRANE

BUILDING COMMITTEE.

C. G. COMEGYS, *Chairman*
JOHN W. CARPENTER FRANK E. CLARITY

LOCAL AFFAIRS COMMITTEE

ROScoe WILSON, *Chairman*
R. A. UNDERWOOD RILEY STRICKLAND

FINANCE COMMITTEE

JOHN W. CARPENTER, *Chairman*
HOUSTON HARTE FRANK E. CLARITY

LEGISLATIVE COMMITTEE

C. G. COMEGYS HOUSTON HARTE, *Chairman* RILEY STRICKLAND

*Died January 17, 1930.

OFFICERS OF ADMINISTRATION

PAUL W. HORN, M. A., LL. D., *President.*

Office, 213 Administration Building.

JAMES M. GORDON, M. A., LL. D., *Dean of the School of Liberal Arts.*

Office, 211 Administration Building.

ARTHUR H. LEIDIGH, M. S., *Dean of the School of Agriculture.*

Office, 102 Agriculture Building.

WILLIAM J. MILLER, S. M. in E. E., *Dean of the School of Engineering.*

Office, 202 Engineering Building.

MARGARET W. WEEKS, M. S., *Dean of the School of Home Economics.*

Office, 101 Home Economics Building.

MARY W. DOAK, M. A., *Dean of Women.*

Office, 102 Administration Building.

W. T. GASTON, *Secretary and Business Manager.*

Office, 105 Administration Building.

EBEN L. DOHONEY, M. A., *Registrar and Assistant Dean.*

Office, 106 Administration Building.

OFFICERS OF INSTRUCTION

PAUL WHITFIELD HORN, *President.*

M. A., Central College; LL. D., 1917.

WILLIAM HENRY ABBITT, *Professor of Physics.*

B. A., Virginia, 1919; Ph. D., Chicago, 1926.

THOR J. BECK, *Professor of French and German; Head of Department.*

B. A., Soroe College, Denmark, 1901; M. A., Copenhagen University, Denmark, 1902; LL. B., 1908; LL. M., 1909; Ph. D., Columbia, 1929.

CARL D. BRANDT, *Professor of Textile Engineering; Head of Department.*

B. S. in T. E., Lowell Textile Institute, 1920.

ALLAN L. CARTER, *Professor of English; Head of Department.*

B. A., Clark, 1911; M. A., Northwestern, 1913; Ph. D., Pennsylvania, 1919.

BENJAMIN F. CONDRAY, *Professor of Economics and Business Administration; Head of Department.*

B. A., Ouachita, 1921; M. A., Chicago, 1923.

WILLIAM MOORE CRAIG, *Professor of Chemistry.*

B. A., Southwestern, 1906; M. A., 1907; M. A., Texas, 1916; Ph. D., Harvard, 1927.

MARY WOODWARD DOAK, *Dean of Women and Professor of English.*

B. A., Texas, 1925; M. A., Texas Tech., 1929.

*CHARLES DUDLEY EAVES, *Professor of History.*

B. A., Texas, 1916; M. A., Chicago, 1922.

JOHN ORVAL ELLSWORTH, *Professor of Agricultural Economics and Farm Management; Head of Department.*

B. S., Utah A. & M., 1917; M. S., Cornell, 1924; Ph. D., 1926.

MABEL DEAN ERWIN, *Professor of Clothing and Textiles; Head of Department.*

B. S., Purdue, 1913; M. A., Columbia, 1925.

ARTHUR WILSON EVANS, *Professor of Education; Head of Department.*

B. A., Oxford College, 1890; M. A., Texas, 1924, Ph. D., 1928.

*GUS L. FORD, *Professor of History.*

B. A., Southern Methodist University, 1920; M. A., 1921.

EWING YOUNG FREELAND, *Professor of Physical Education; Head of Department.*

B. A., Vanderbilt, 1912.

RAYMOND ERNEST GARLIN, *Professor of Education.*

B. A., Texas, 1920; M. A., 1921; Ph. D., 1927.

ENOCH FRANKLIN GEORGE, *Professor of Physics; Head of Department.*

B. A., West Virginia, 1914; M. A., 1916; Ph. D., Ohio State, 1920.

*Absent on leave, 1929-1930.

JAMES MARCUS GORDON, *Dean of Liberal Arts and Professor of Latin.*

B. A., Trinity, 1903; M. A., Chicago, 1908; LL. D., Trinity, 1919.

JOHN COWPER GRANBERY, *Professor of History; Head of Department.*

B. A., Randolph-Macon, 1896; M. A., Chicago, 1908; Ph. D., 1909.

HERVEY C. HICKS, *Acting Professor of Aeronautics and Mathematics.*

Ph. B., Chicago, 1921; M. S., 1922; Ph. D., California Institute of Technology, 1928.

WILLIAM CURRY HOLDEN, *Professor of History.*

Ph. D., Texas, 1928.

WILLIAM ALBERT JACKSON, *Professor of Government; Head of Department.*

B. A., Baylor, 1914; M. A., Chicago, 1916; Ph. D., Iowa, 1924.

FLORIAN ARTHUR KLEINSCHMIDT, *Professor of Architectural Engineering; Head of Department.*

B. S. in Arch., Minnesota, 1920; M. in Arch., Harvard, 1922; Diploma d'Architecture, Ecole des Beaux Arts Americaine, Fontainebleau, 1925.

ARTHUR HENRY LEIDIGH, *Dean of Agriculture and Professor of Agronomy.*

B. S., Kansas State Agricultural College, 1902; M. S., Texas A. & M., 1923.

***JONNIE HEMPHILL McCRERY**, *Professor of Foods; Head of Department.*

B. S., Columbia, 1920; M. A., 1923.

SETH SHEPARD MCKAY, *Professor of History.*

B. A., Texas, 1912; M. A., 1919; Ph. D., Pennsylvania, 1924.

CHARLES HAROLD MAHONEY, *Professor of Horticulture; Head of Department.*

B. S., Arizona, 1923; M. S., Texas A. & M., 1925.

CLARENCE SIMPSON MAST, *Professor of Physics.*

B. S., Ohio Wesleyan, 1906; M. A., 1911.

JAMES NEWTON MICHIE, *Professor of Mathematics; Head of Department.*

B. S. in Engineering, Virginia, 1908; M. A., Michigan, 1919.

WILLIAM JASPER MILLER, *Dean of Engineering and Professor of Electrical Engineering; Head of Department.*

E. E., Texas, 1915; S. M. in E. E., Massachusetts Institute of Technology, 1922.

RUFUS ARTHUR MILLS, *Professor of English.*

B. A., Texas, 1914; M. A., 1923.

JAMES HAROLD MURDOUGH, *Professor of Civil Engineering; Head of Department.*

S. B. in C. E., Massachusetts Institute of Technology, 1913.

LEROY THOMPSON PATTON, *Professor of Geology; Head of Department.*

B. A., Muskingum College, 1905; B. S., Chicago, 1913; M. S., Iowa, 1916; Ph. D., Iowa, 1923.

*Absent on leave, 1929-1930.

ANNAH JO PENDLETON, *Professor of Speech.*

B. A., Texas Christian University, 1918; Graduate School of Speech, Northwestern University, 1921; graduate work in Speech, Iowa.

RUTH PIRTLE, *Professor of Speech; Head of Department.*

B. S. and Diploma as Teacher of Speech Education, Columbia, 1928; Student, Hickman School of Speech Arts; Lyceum Arts Conservatory; Colorado; California; Curry School of Expression, Boston.

CHARLES BLAISE QUALIA, *Professor of Spanish; Head of Department.*

B. A., Texas, 1916; M. A., 1921.

WILLIAM L. RAY, *Professor of Chemistry.*

B. A., Texas, 1918; M. A., 1920; Ph. D., Chicago, 1923.

WILLIAM THORNTON READ, *Professor of Chemistry; Head of Department.*

B. A., Austin College, 1905; M. A., 1908; M. S., Texas, 1915; Ph. D., Yale, 1921.

GEORGE SMALLWOOD, *Professor of English.*

B. A., Southwestern, 1917; M. A., Southern Methodist University, 1925.

FRED WENCHELL SPARKS, *Professor of Mathematics.

B. A., Southwestern, 1920; M. A., 1922; M. S., Chicago, 1923.

WENZEL LOUIS STANGEL, *Professor of Animal Husbandry; Head of Department.*

B. S., Texas A. & M., 1915; M. S., Missouri, 1916.

RICHARD ARTHUR STUDHALTER, *Professor of Biology; Head of Department.*

B. A., Texas, 1912; M. A., Washington University, 1917.

CARL LARS SVENSEN, *Professor of Engineering Drawing; Head of Department.*

B. S., Tufts College, 1907; M. E., 1921.

GEORGE LEWIS TUVE, *Professor of Mechanical Engineering; Head of Department.*

B. S. in M. E., Minn., 1920; M. E., 1921.

WILLIAM RICHARD WAGHORNE, *Professor of Music; Head of Department.*

A. A. G. O., New York, 1914; F. A. G. O., 1915.

MARGARET WATSON WEEKS, *Dean of Home Economics and Professor of Nutrition.*

B. S., Columbia, 1921; M. S., 1925.

ASSOCIATE PROFESSORS**OTTO V. ADAMS, *Associate Professor of Civil Engineering.***

B. S. in C. E., Colorado Agricultural College, 1918; M. S. E., Michigan, 1924.

LALLA ROOKH BOONE, *Associate Professor of History.

B. A., Texas, 1917; M. A., California, 1922.

HARLEY JAMES BOWER, *Associate Professor of Agronomy; Head of Department.*

B. S., Kansas State Agricultural College, 1910; M. S., Ohio State, 1912.

*Absent on leave, 1929-1930.

MILDRED BUSH, *Associate Professor of Biology.*

B. A., Indiana, 1913; M. A., Texas, 1929.

HORACE BAILEY CARROLL, *Associate Professor of History.*

B. A., Texas Tech., 1928; M. A., 1929.

WARREN PERRY CLEMENT, *Associate Professor of Education.*

B. A., Baylor, 1919; M. A., 1920.

JEAN DORREL, *Associate Professor of Applied Arts; Head of Department.*

Ph. B., Chicago, 1916; M. A., Columbia, 1923; Special Certificate, Paris School of N. Y. University, Paris, France, 1929.

BONNIE K. DYSART, *Associate Professor of Education.*

B. S., Texas; M. A., 1927.

RUPERT WINTHROP FOWLER, *Associate Professor of English.*

B. A., Texas, 1908; M. A., Harvard, 1920.

WILLIAM BRYAN GATES, *Associate Professor of English.*

B. S., Millsaps, 1918; M. A., Vanderbilt, 1921; M. A., Michigan 1927.

CARL HENNINGER, *Associate Professor of French and German.*

B. A., Indiana, 1907; M. A., Illinois, 1908.

HARRY HILL, *Associate Professor of Physics.*

B. A., West Virginia, 1922; M. A., 1924.

MILTON FREDERIC LANDWER, *Associate Professor of Biology.*

B. A., Northwestern, 1920; M. A., Nebraska, 1926.

*BESSIE BEAKLEY LEAGUE, *Associate Professor of Biology.*

B. A., Texas, 1921; M. A., 1925.

DOROTHY MCFARLANE, *Associate Professor of Foods.*

B. S., Columbia, 1915; M. A., 1919.

FLORA POWELL MCGEE, *Associate Professor of English.*

B. A., Colorado College; M. A., George Peabody College, 1924.

RAY C. MOWERY, *Associate Professor of Animal Husbandry.*

B. S., Texas A. & M., 1921; M. S., Iowa State College, 1928.

ERNEST NELSON, *Associate Professor of Textile Engineering.*

Lowell Textile Institute, 1911.

HAROLD R. NISSLEY, *Associate Professor of Economics and Business Administration.*

B. S. in E. E., Armour Institute, 1926; Ph. B., Chicago, 1927.

MONTELL E. OGDON, *Associate Professor of Government.*

B. A., Illinois, 1925; M. A., Columbia, 1926.

*HARDISTON C. PENDER, *Associate Professor of Government.*

B. A., North Texas State Teachers College, 1921; M. A., Baylor, 1926.

EDWARD LOOMAN REED, *Professor of Botany.*

B. A., Oklahoma Baptist College, 1912; M. S., Chicago, 1922; Ph. D., 1924.

KENNETH MILLER RENNER, *Associate Professor of Dairy Manufactures; Head of Department.*

B. A., Iowa State College, 1921; M. S., Kansas State Agricultural College, 1927.

*Absent on leave, 1929-1930.

WILBER IRVING ROBINSON, *Associate Professor of Geology.*

B. S., Michigan, 1912; M. S., 1914; Ph. D., Yale, 1916.

F. YANTIS ROBNETT, *Associate Professor of English.*

B. A., Baylor, 1921; M. A., 1922.

CLIVE E. RUSSELL, *Associate Professor of Horticulture.*

B. S., Michigan State College, 1926; M. S., Oregon Agricultural College, 1928.

CLARENCE CARL SCHMIDT, *Associate Professor of Physics.*

B. A., Cornell College, 1917; M. A., Illinois, 1921; Ph. D., 1927.

JAMES THOMAS SHAVER, *Associate Professor of Education.*

B. S., S. H. T. C., 1926; M. A., Columbia, 1927.

EDGAR GREER SHELTON, *Associate Professor of Architectural Engineering.*

B. S. in Architecture, Texas, 1921.

MERRILL ADDISON STAINBROOK, *Associate Professor of Geology.*

B. A., Iowa, 1921; M. S., 1922; Ph. D., 1927.

MAYME TWYFORD, *Associate Professor of Foods.*

B. S., West Virginia, 1920; M. A., Columbia, 1928.

RALPH S. UNDERWOOD, *Associate Professor of Mathematics.*

B. A., Minnesota, 1916; M. A., 1917.

*FRANCES WHATLEY, *Associate Professor of Spanish.*

B. A., Texas, 1920; M. A., 1925.

WILLIAM A. WHATLEY, *Associate Professor of Spanish.*

B. A., Texas, 1920; M. A., 1921.

WILLIAM MORRIS YOUNG, *Associate Professor of Electrical Engineering.*

B. S. in E. E., Illinois, 1921; M. S. in E. E., 1922; Ph. D., 1926.

OTHER OFFICERS OF INSTRUCTION

JAMES G. ALLEN, *Instructor in English.*

B. A., Southern Methodist University, 1924; M. A., Harvard, 1927.

FRANCIS EDWIN BALLARD, *Instructor in Government.*

M. A., Vanderbilt, 1926.

SAMUEL J. BOLLER, *Assistant Professor of Engineering Drawing.*

B. E., Iowa, 1922; M. A., 1927.

MRS. EDNA WALKER BUSTER, *Assistant Professor of Clothing and Textiles.*

B. S., College of Industrial Arts, 1924; M. A., Columbia, 1929.

LLOYD C. CHRISTIANSON, *Instructor in Mathematics.*

B. A., Westminster, 1925; M. A., Missouri, 1928.

ORMOND CHARLES CORRY, *Assistant Professor of Business Administration.*

B. S., North Texas State Teachers College, 1925; M. A., Texas, 1927.

ALBERT BENJAMIN CUNNINGHAM, *Assistant Professor of English.*

B. A., Muskingum College, 1913; M. A., New York University, 1916; Litt. D., Lebanon, 1917; Ph. D., N.-Y. University, 1926.

*Absent on leave, 1929-1930.

- MRS. GEORGIA WILSON DINGUS, *Instructor in Latin.*
B. A., Texas, 1910; M. A. Texas Tech. 1929.
- NAT EDMONSON, JR., *Acting Assistant Professor of Mathematics.*
B. A., Austin College, 1924; M. A., 1925; Ph. D., Rice Institute, 1929.
- MARSHALL E. FARRIS, *Assistant Professor of Mechanical Engineering.*
B. S. in M. E., Purdue, 1922; M. S. in M. E., Texas, 1926.
- EMILIE MADONNE FARROW, *Assistant Professor of French.*
B. A., Ouachita, 1923; M. A., Baylor, 1926.
- CHARLES C. GALBRAITH, *Graduate Assistant in Chemistry.*
B. S., Trinity, 1928.
- EUNICE J. GATES, *Instructor in Spanish.*
B. A., Southwestern, 1921; M. A., 1924; M. A., Michigan, 1927.
- JOHNNYE GILKERSON, *Assistant Professor of Physical Education for Women.*
B. A., Texas, 1924; M. A., U. of Southern California, 1929.
- LUCILLE AVO POWELL GILL, *Instructor in English.*
B. A., Texas, 1922; M. A., 1925.
- FRED G. HARBAUGH, *Assistant Professor of Animal Husbandry.*
B. S., Iowa State College, 1927; D. V. M., 1927.
- JOHN COYNE HARDGRAVE, *Instructor in Mechanical Engineering; Superintendent of Shops.*
- KATHERINE HARPER, *Director of the Cafeteria and Assistant Professor of Foods.*
B. S., College of Industrial Arts, 1918; M. A., Columbia, 1926.
- MAURICE EARL HEARD, *Instructor in Textile Engineering.*
Georgia Tech.
- ELLIS RICHARD HEINEMAN, *Instructor in Mathematics.*
B. A., Wisconsin, 1925; M. A., 1926.
- WILLIAM FRANK HELWIG, *Assistant Professor of Electrical Engineering.*
B. S. in E. E., Minnesota, 1923; M. S., Texas, 1928.
- GRAILY HEWITT HIGINBOTHAM, *Assistant Professor of Physical Training; Coach of Football and Baseball.*
- CECIL HORNE, *Assistant Professor of English and Journalism and Head of Information Bureau.*
B. A., Baylor, 1908; B. A., Yale, 1911.
- RHODES INGERTON, *Assistant Professor of Physical Training; Coach of Freshman Football and Basketball.*
- J. W. JACKSON, *Instructor in Government.*
B. A., Texas Tech., 1929; M. A., 1929.
- VIVIAN JOHNSON, *Instructor in Foods and Home Economics Education.*
B. S., Southwest Texas State Teachers College, 1924; M. A., Columbia, 1927.

HUGH EDWARD KILLIN, *Instructor in Military Science.*

B. A., Texas Tech., 1929.

OSCAR A. KINCHEN, *Assistant Professor of History.*

B. A., Oklahoma, 1916; M. A., 1920.

*KENNETH LESLIE KNICKERBOCKER, *Instructor in English.*

B. A., Southern Methodist University, 1925; M. A., 1927.

LONNIE LANGSTON, *Instructor in Mathematics.*

B. A., Furman, 1927; M. A., South Carolina, 1928.

HARRY LEMAIRE, *Instructor in Music; Bandmaster.*

Kneller Hall, 1882; F. R. A., Royal Academy of Music, London, England, 1883.

WAYNE E. LONG, *Instructor in Mechanical Engineering.*

B. S. in M. E., Texas A. and M., 1927.

*J. WELBORN MCKAY, *Instructor in Biology.*

B. A., M. A., Texas, 1927.

FITZHUGH LEE MCREE, *Assistant Professor of Civil Engineering.*

B. S. in C. E., Texas, 1924.

MRS. J. M. MARSHALL, *Instructor in Chemistry.*

B. A., Texas, 1909.

MRS. EUNICE COX MOWERY, *Instructor in Expression.*

B. S., Texas Woman's College, 1922; Student Curry School of Expression, Boston; Graduate Work, Chicago; Oklahoma; Columbia.

DONALD VAN DALE MURPHY, *Assistant Professor of English.*

B. A., Tulsa, 1920; M. A., Columbia, 1926.

VICTOR D. PAYNE, *Assistant Professor in Physical Training, Coach of Basketball and Track.*

B. A., Simmons University, 1920.

C. C. PERRYMAN, *Instructor of Engineering Drawing.*

B. S., N. T. S. T. C., 1926.

MRS. ROXIE CLARKE READ, *Instructor in Chemistry.*

B. A., Hendrix College, 1909; M. A., Texas, 1918.

ZELLA E. RIEGEL, *Assistant Professor of Physical Education for Women.*

B. A., Central College, 1925.

*LIMMYE VERNON ROBINSON, *Assistant Professor of Mathematics.*

B. A., Texas, 1921; M. A., 1922.

CHARLES C. RODEFFER, *Instructor in Mathematics.*

B. A., Bridgewater College, 1923; M. A., Virginia, 1927.

JESSIE Q. SEALEY, *Instructor in Biology.*

B. A., Texas, 1928; M. A., 1928.

RAYMOND GILBERT SIDWELL, *Assistant Professor of Geology.*

B. A., Iowa, 1921; M. S., 1922; Ph. D., 1928.

WILLIAM M. SLAGLE, *Assistant Professor of Chemistry.*

B. A., Southwestern, 1916; M. A., Texas, 1928.

*ELIZABETH THATCHER STAFFORD, *Assistant Professor of Mathematics.*

Ph. B., Brown University, 1923; M. S., 1924.

*Absent on leave, 1929-1930.

ALFRED BELL STREHLI, *Assistant Professor of Spanish.*

B. A., Ohio State, 1924; M. A., 1926.

ALAN LANG STROUT, *Assistant Professor of English.*

M. A., Chicago, 1920; M. A., Wisconsin, 1925; Ph. D., Yale, 1928.

MRS. RUTH STUDHALTER, *Instructor in Biology.*

B. A., Missouri, 1911; M. A., Washington University, 1917.

GUSSIE LEE TEAGUE, *Instructor in English.*

B. A. Oklahoma, 1923; M. A., Colorado, 1926.

EARL L. THOMPSON, *Assistant Professor of Mathematics.*

B. A., Kansas State Teachers College, 1908; M. A., Kansas, 1914; Ph. D., Chicago, 1928.

INSTRUCTORS IN SPECIAL DEPARTMENTS

MARY DEBARDELEBEN, *Biblical Literature.*

A. B., University of Alabama; B. S., Columbia; M. A., Peabody College.

MRS. ENOCH FRANKLIN GEORGE, *Piano.*

B. Mus., Cincinnati, 1918.

MARGARET JOHNSON HUFF, *Piano.*

B. Mus., American Conservatory, 1910.

*MRS. DOROTHY McDONALD KNICKERBOCKER, *Instructor in Violin.*

Brenau Conservatory, 1926; Pupil of Eithel Allen Nelson, and E. B. Michaelis.

HARRY LEMAIRE, *Band.*

MRS. VIOLET GRAYUM MCKNIGHT, *Voice.*

B. M., Baylor, 1923; Pupil of Herbert Witherspoon, Chicago Musical College; E. Warren K. Howe, American Conservatory; Fred Eggert; Maude Baird.

MRS. EUNICE COX MOWERY, *Expression.*

B. S., Texas Women's College, 1922; Chicago; Curry School of Expression; Oklahoma; Columbia.

MRS. M. A. SCOGGIN, *Voice.*

Graduate of College of Music, Ottawa University.

DEPARTMENT OF EXTENSION

JULIUS F. McDONALD, *Director.*

B. A., Baylor, 1897; B. A., Yale, 1898; M. A., Chicago, 1910.

LIBRARY STAFF

ELIZABETH HOWARD WEST, *Librarian.*

B. A., Texas; M. A., 1901; Texas Library Training Class, 1905-6.

EMMA LILLIAN MAIN, *Assistant Librarian.*

B. A., North Texas State Teachers College, 1924; Texas Library School, 1925-26.

MADLIN FRANCES CANOVA, *Reference Librarian.*

B. A., Texas, 1927; B. S. in Library Science, Illinois, 1929.

MRS. OLIVE PRICE HOLDEN, *Reference Librarian.*

B. A., Texas, 1923; Texas Library School, 1925-26.

MRS. ANNE FORD, *Library Assistant.*

*Absent on leave, 1929-1930.

OTHER EMPLOYEES

MRS. R. M. CHITWOOD, *Assistant to the Dean of Women.*

H. M. BELL, *Superintendent of Farms.*

B. S., New Mexico A. and M., 1927.

MARVIN T. WARLICK, *Business Manager of Athletics.*

B. A., Henderson-Brown, 1912.

J. H. GRIMSLEY, *Superintendent of Buildings and Grounds.*

SECRETARIES

PEARL HARRISON, *Secretary to the President.*

JUANITA POOL, *Secretary to Dean of Agriculture.*

EVELYN KNIPP, *Secretary to Dean of Engineering.*

BLANCHE BACON, *Secretary to Dean of Home Economics.*

MARGARET McNABB, *Secretary to Dean of Liberal Arts.*

SYLVA WILSON, *Secretary to Dean of Women.*

EVELYN CLEWELL, *Secretary to the Registrar.*

MRS. JACK RANDAL, *Secretary to Engineering Faculty.*

MRS. M. C. BRADLEY, *Secretary to Liberal Arts Faculty.*

ELLEN MARSHALL, *Secretary to Business Manager.*

MRS. JAMES G. ALLEN, *Secretary to Information Bureau.*

MARY JO COLE, *Secretary to Purchasing Agent.*

FRANCES SMALL, *Secretary to Auditor.*

BUSINESS OFFICE

S. T. CUMMINGS, *Purchasing Agent.*

JANE MARGUERITE BENNETT STILES, *Auditor.*

WILLIAM CONNER COLE, *Manager of Bookstore.*

MRS. V. LORENZ ELLIS, *Cashier.*

FRANCES RAY WILSON, *Student Activity Bookkeeper.*

VIRGINIA TINER, *Telephone Operator.*

MRS. ROSELLE RUSHING, *Postmistress.*

FACULTY COMMITTEES

(The President is ex-officio a member of all committees.)

1. Daily schedule: Deans Gordon, Leidigh, Miller, Weeks.
2. Registration: Dohoney, Svensen, Condray, Russell, Buster.
3. Housing for Men: Mast, Ray, Horne.
4. Formal exercises: Abbitt, Waghorne, Carter.
5. Student help: Horne, Dohoney, Condray.
6. Entrance examinations: Clement, Hill, Adams.
7. Extra-curricular activities: Granbery, West, Michie.
8. Student activities: Doak, Weeks, Mowery.
9. Student Publications: Mills, McGee, Horne.
10. Scholarship awards: Evans, Studhalter, Kleinschmidt.
11. Religious life among students: Read, Pirtle, Clement.
12. Publicity: Horne, Fowler, Gates.
13. General catalog: Deans Leidigh, Gordon, Miller, Weeks.
14. Course of study, Liberal Arts: Dean Gordon and department heads.
15. Faculty advisors: George, Twyford, Reed.
16. Artists' course: Waghorne, Cunningham, Craig.
17. Summer school: Gordon, Evans, Granbery.
18. Degrees and advanced standing in Liberal Arts: Gordon, Jackson, Read.
19. Public speaking: Mills, West, Granbery.
20. Discipline (men): Gordon, Leidigh, Miller.
21. Discipline (women): Doak, Weeks, Erwin.
22. Athletic Council: Stangel, Jackson, Dohoney, Freeland, Gaston, Carroll, Camp.
23. Extension work: Gordon, Leidigh, Weeks, Jackson, Evans.

GENERAL INFORMATION

INTRODUCTION

As the Texas Technological College is a new institution, having been first opened for instruction in 1925, a statement as to its foundation, development, and the scope of its activities is perhaps more necessary than would be the case with an older institution. For that reason certain statements in the introductory part of this catalogue are included.

LOCATION

The College is situated at Lubbock, in Lubbock County, which is in the western part of the State. The elevation at Lubbock is 3,250 feet above sea level.

Lubbock is located on two railroad systems. Six lines of the Santa Fe serve Lubbock, one of these being the transcontinental line from Houston to Los Angeles. There is one line on the Fort Worth and Denver City, a part of the Burlington System. These transportation lines offer eighteen trains daily, with very good time schedules to most parts of the State. There is an even greater number of regularly scheduled automobile stages.

The city of Lubbock is well fitted to serve the College and its visitors and students, being a small modern city of approximately 20,000 population. There are large modern hotels, modern hospitals well staffed, and excellent churches. The public school system of Lubbock is progressive and has a large staff of capable teachers. These facts are of interest to parents who wish to accompany their children who go to college.

HISTORY

The Texas Technological College was founded by an Act of the State Legislature in 1923. The work of location and of construction went forward rapidly and the formal opening exercises were held on September 30, 1925. The first buildings were practically completed when the first recitations were held on October 1, 1925.

The College is a State supported co-educational institution of higher learning. It is a member of the Association of Colleges and Secondary Schools of the Southern States. The yearly sessions consist of three terms, coming in the fall, winter, and spring, respectively, and a summer session. The first term there were 925 students enrolled and at the close of the first session, covering the year October 1 to May, there had been 1,043 students enrolled. During the nine months' session of the second year, 1,535 students were enrolled. The third year saw 1,682 students enrolled, and the fourth session had an

enrollment of 2,088. These figures are for the usual fall, winter and spring terms only, and the summer sessions have shown large enrollments likewise, having had enrollments as follows:

1926, 365; 1927, 677; 1928, 965; and 1929, 1,298, respectively.

As there is duplication of the summer session enrollment and that of the long session, it is well to point out that the total enrollment without duplication in the 1928-29 session, and the summer session, is as follows: Long session, 2,088; summer session, 1,298; total, 3,386, less long session students also enrolled in the summer session, 578, giving a net total for the year of 2,808.

The Texas Technological College was established by act of the Thirty-eighth Legislature through an enactment, known as Senate Bill No. 103, set forth as follows:

An Act to establish a State College in Texas, west of the ninety-eighth (98th) meridian and north of the twenty-ninth (29th) parallel, to be known as the Texas Technological College; providing for the location of such College; its government; the control of its finances; defining its leading objects and prescribing generally the nature and scope of instruction to be given; conferring upon the Board of Directors of said college the rights of eminent domain; making the necessary appropriation for the purchase of land, the location, establishing and maintenance of said College, and declaring an emergency.

Be it enacted by the Legislature of the State of Texas:

SECTION 1. There shall be established in this State a College for white students, to be known as the Texas Technological College, said College to be located north of the twenty-ninth (29th) parallel, and west of the ninety-eighth (98th) meridian, and shall be a co-educational College giving thorough instruction in technology and textile engineering from which a student may reach the highest degree of education along the lines of manufacturing cotton, wool, leather and other raw material produced in Texas, including all branches of textile engineering, the chemistry of materials, the technique of weaving, dyeing, tanning, and the doing of any and all other things necessary for the manufacture of raw materials into finished products; and said college shall also have complete courses in the arts and sciences, physical, social, political, pure and applied, such as are taught in colleges of the first class leading to the degrees of Bachelor of Science, Bachelor of Arts, Bachelor of Literature, Bachelor of Technology, and any and all other degrees given by colleges of the first class; said college being designated to elevate the ideals, enrich the lives and increase the capacity of the people for democratic self-government and particularly to give instruction in technological, manufacturing, and agricultural pursuits, and domestic husbandry and home economics, so that the boys and girls of this State may attain their highest usefulness and greatest happiness and in so doing may prepare themselves for producing from the State its greatest possible wealth.

SEC. 2. The government, control and direction of the policies of said Technological College shall be vested in a board of nine (9) directors to be appointed by the Governor, who shall hold office for a period of six (6) years, said board of nine (9) directors to be so divided that the terms of three (3) directors shall expire every two years, and it shall be the duty of the Governor, in making the appointment of the first board of directors, to indicate in his appointment the name of the director whose term shall expire in two (2) years, the name of the director whose term shall expire in four (4) years, and the name of the director whose term shall expire in six (6) years; all of said directors to hold their office until their successors are qualified, unless a removal is made by the Governor for inefficiency or inattention to their duties as members of such board.

The board of directors of the Texas Technological College shall provide a president therefor, who shall devote his entire time to the executive management of said school and who shall be directly accountable to the board of directors for the conduct thereof.

SEC. 3. In addition to the courses provided in technology and textile engineering, the said Texas Technological College shall offer the usual college courses given in standard senior colleges of the first class, and shall be empowered to confer appropriate degrees to be determined by the board of directors and shall offer four-year courses, two-year courses, or short-term courses in farm and ranch husbandry and economics and the chemistry of soils and the adaptation of farm crops to the peculiar soil, climate and condition of that portion of the State in which the college is located, and such other courses and degrees as the board of directors may see fit to provide as a means of supplying the educational facilities necessary for this section of the State, and it shall be the duty of the board of directors to furnish such assistance to the faculty and students of said college as will enable them to do original research work and to apply the latest and most approved method of manufacturing and, in general, to afford the facilities of the college for the purpose of originating developing, supporting and maintaining all of those agencies (physical, mental and moral) for the development of the physical, mental and moral welfare of the students who attend the college and for the further purpose of developing the material resources of the State to their highest point of value and usefulness by teaching the arts of commerce and manufacturing. All male students attending this college shall be required to receive such instruction in military science and tactics as the board of directors may prescribe which shall, at all times, comply in full with the requirements of the United States Government now given as a prerequisite to any aid now extended or hereafter to be extended by the Government of the United States to State institutions of this character and all such white male students shall, during their attendance at such college, be subject to such military discipline and control as the board of directors may prescribe.

SEC. 4. The chairman of the State Board of Control and the State Superintendent of Public Instruction, the President of the University of Texas, the President of the College of Industrial Arts of Texas, and the President of the Agricultural and Mechanical College of Texas shall constitute a board charged with the responsibility for the location of the Texas Technological College, a majority of whom shall be authorized to act under the terms of this bill in the location of said school; said board being restricted in the choice of location to the area mentioned in Section 1 of this act and as soon after the passage and approval of this act as practical, said locating board shall make careful investigation of proposed sites for the said institution. Consideration shall be given to climatic conditions, supply of water, accessibility and such other matters as may appropriately enter into the selection of the desirable location of an institution of this kind. It is further provided that the said locating board shall not be influenced to any degree in the determination of its selection of a location by offers and promises of bonuses and gifts, directly or indirectly, to the State of Texas, as a consideration for the location of said college at any particular place, but a primary consideration which shall outweigh all others in the minds of the members of the locating board, shall be to locate this college where it can, in the future, render the greatest service to the State and to the section of the United States for which it is especially intended; but this is not to be interpreted to mean that the board of directors shall not have authority to accept gifts of land, money for students' loans, permanent improvement or any other objects of value when tendered for the purpose of more completely carrying out the purpose of this act; said gifts to be made after said school is located and established and if a suitable location for said college is offered by any city or community. The lands bought shall be so located that the administration building will be within convenient distance to the residence section of the town where located, or the place where the students reside.

SEC. 5. The said locating board shall have authority to select approximately two thousand (2,000) acres of land for the site of said college and agree with the owner or owners thereof upon the price to be paid therefor, which said agreement shall be reduced to writing, and by the said locating board signed and delivered to the board of directors herein provided for, who shall thereupon have full authority to contract for the purchase of said land for said purpose, and, upon the approval of the title thereto by the Attorney General of the State of Texas, to pay for said land and any improvements thereon in any sum not to exceed one hundred and fifty thousand (\$150,000) dollars.

SEC. 6. It is further provided that, when said locating board has selected a site for said college, it shall be the duty of said board to make a full and complete report of all details connected with the selection of the site for the said college to the Governor of the State of Texas. The filing of this report with the Secretary of State shall legally constitute the establishing of the college.

SEC. 7. The board of directors of the said Texas Technological College is hereby vested with the powers of eminent domain to acquire for the use of said college such land as may be necessary for the purpose of carrying out its purposes by condemnation proceedings such as are now provided for railroad companies under the laws of the State of Texas.

SEC. 8. There is hereby appropriated from the general revenues of the State, not otherwise appropriated, the following sums, or so much thereof as may be necessary:

1. Twenty-five hundred (\$2500) dollars of the available revenue of the State, or so much thereof as may be necessary, to become available upon the passage and approval of this act, for the purpose of paying the expense of the locating board in determining the location of said institution.

2. One hundred and fifty thousand (\$150,000) dollars of the available revenues of this State, or so much thereof as may be necessary, to become available September 1, 1923, for the purchase of the necessary lands for the location and establishment of said school, and any portion of which amount not used for the purchase of lands shall be available for the purposes provided in the following sections hereof.

3. Five hundred thousand (\$500,000) dollars for the fiscal year ending August 31, 1924, for the purpose of providing necessary utilities, machinery, permanent improvements, equipment and buildings for said college.

4. Three hundred and fifty thousand (\$350,000) dollars for the fiscal year ending August 31, 1925, for the purpose of providing necessary utilities, machinery, permanent improvements, equipment and buildings for said college; and

5. In the event any portion of the sums hereby appropriated should not be used for and during the year for which they are hereby appropriated, such sums shall become available for the succeeding year, for the purposes herein provided, and for no other.

SEC. 9. The fact that Texas is producing annually millions of dollars worth of raw materials, which are being shipped to distant factories to be made into finished products, together with the fact that Texas has no adequate institution for teaching technology and the art of textile manufacturing and the fact that the needs of that portion of the State where this college shall be located are inadequately supplied with educational institutions, create an emergency and an imperative public necessity for this act to take effect at once and for the suspension of the constitutional rule requiring bills to be read on three several days, it is therefore enacted that said rule be suspended and this act take effect and be in force on and after its passage.

BUILDINGS AND GROUNDS

PLANS

The architects have an interesting and we believe not an extravagant discussion of the present and future of the buildings in a description which we quote in full as follows:

"Texas Technological College is now a reality. The high hopes and the firm endeavors of those far-seeing citizens of the Plains Country have been brought to the beginning of their fulfillment, with the enrollment of a first year's class in 'Texas Tech,' exceeding in numbers 900 students. It is indeed a most auspicious beginning, one which represents in the natural succession of four years' college enrollment a college community of great size and vigor springing almost at once, full grown, into ranks of the greater schools of learning of our country. It may be possible for me to portray a vision of the College in its entirety and as we hope it shall be in its gradual expansion to fill the needs of the student body, a constantly growing community. The buildings and courts of such a college gradually gather the association and the tradition rich with the history of Texas and rich in each successive generation with the achievements of the men and women who have gone forth from these buildings and courts to the activities of this State.

"The conception of this College centers about the Hall of Texas; which will be the college auditorium and commencement hall; the great building which is to be located at the head of the splendid avenue which the city of Lubbock has built leading from the city and extending into the campus. This hall, in its architectural tradition of the splendid spirit of this great State, will seek the re-embodiment of that splendid spirit of this great State, which clusters in memory about the historic days of the Alamo in San Antonio, a spirit as real in architecture as in tradition, and one which is to be cherished forever in the education of the young men and women of Texas. The decorative motifs of this hall in its interior and exterior will embody the history of the early periods of Texas; while it is to be hoped that in the years and generations which are to come it will gradually also contain the paintings and the statues and the memorials of the sons and daughters of Texas, who will in the future attain a worthy place in history.

"Flanking the Hall of Texas on either side will be the laboratories of science, chemistry and physics, connected in such a manner as to form the court closing the western end of the great central court, or yard, of the College. This court will be raised at a level some few feet higher than the great central court.

"The Administration and Academic Building, the first and main facade of which has now been completed, forms the south side of the great court. This Academic and Administration Building is, when entirely completed, a building enclosing three sides of a smaller garden

patio opening on the south to large lawns which form a long vista of the campus upon which there will be also on either side the following buildings:

Halls for Women.

Home of the President.

The Library of the College.

The Young Men's and Young Women's Christian Association and other buildings.

"Looking across the great court, or yard, from the Administration Building toward the north, one will see a long vista opening down the engineering quadrangle at the end of which there has been built the building of Textile Engineering. The entire western side of the quadrangle, measuring in length some 1,100 feet, will be devoted to the gradual development of schools of engineering which will embrace engineering in all of its branches, both theoretical and experimental. The entire eastern side of the rectangle opposite the engineering building has been set aside for the housing of men, including the dining halls, gymnasiums and drill grounds. The large second court to the west of the academic lawn is the court for the agricultural college upon which two of the smaller permanent buildings have already been erected. This court will develop with buildings for agronomy, animal husbandry, experimental service, etc.

"The vision of the authorities of the College that it shall within a generation reach a number approximating 6,000 students seems to be certain of fulfillment in view of its large enrollment, and for such a number have the assignments of space upon the campus for the different buildings and departments been made, with each department possible of even further developing in later generations. What we see upon the campus now is but the beginning of a great institution, the reality of which now exists, and its future lies in the hearts and minds of the active and progressive citizens of West Texas.

"In its architecture, 'Texas Tech.' is carrying on the traditions of the early architectural history of this State. That tradition is recorded in the old Spanish missions. This style of Spain, which was the background of the missions of Texas, was one of the most impressive and inspiring of Europe. The architecture of Spain in the middle of the Sixteenth century, as one sees it in such examples as Leon, Alcala de Henares, Salamanca and Toledo, carries the simple splendor of the wall far more robust and at the same time in more artful work than is characteristic of the other countries of Western Europe in their periods of Renaissance. It was this style that was brought into Texas by the early missions and whose silhouette and mass is beautifully reflected in its missions. The workmanship and skill of the style was beyond the skill of the period of mission building. The great tablelands of West Texas upon which the buildings of the new college are being built have likeness in color and character to the tablelands of Central Spain, and this group of college buildings, as it gradually develops into its differ-

ent courts, can carry the early traditions, fittingly tying-in, in the bond of tradition, the old history and the new, the past, the present and the hope of the future."—(*From the Architects.*)

BUILDINGS AT PRESENT COMPLETED

At the present time there have been completed the following buildings on the college campus, namely:

Administration Building, first unit.

Textile Engineering Building, first unit.

Home Economics Building, first unit.

President's Home.

Cafeteria.

Stock Judging Pavilion.

Dairy Barn.

Heating Plant.

Mechanical Engineering Shop.

Gymnasium.

A small class-room building for Agriculture.

Greenhouse, first unit.

Home Management House.

Engineering Building, first unit.

Chemistry Building.

Approximately thirty-five small buildings comprising Agricultural equipment.

Building and Grounds Shop.

Bookstore.

Administration Building.—The main facade or first unit of the Administration Building was completed at the opening of the College in 1925. It is an imposing structure approximately sixty by three hundred feet and is three stories in height. At present it houses the administrative offices of the College, departmental offices and class rooms of the School of Liberal Arts, and the College Library.

Textile Engineering Building.—The first unit of the Textile Building was completed at the opening of the College; it is approximately sixty-five by two hundred and twenty feet, and is two stories in height. The value of the building and its equipment of modern textile machinery is about a quarter of a million dollars.

Home Economics Building.—The first unit of the Home Economics Building was likewise ready for occupancy at the opening of the College. This unit is approximately forty by eighty feet, and is two stories high. It contains the offices, class rooms, and laboratories of the School of Home Economics.

Home Management House.—The Home Management House, constructed in 1927, is a brick residence, two stories high. It is completely furnished and is used as the laboratory for students in Home Management. It also serves as a social center for the activities of the School of Home Economics.

Engineering Building.—The first unit of the main Engineering Building was built during the school year of 1927-28 and was ready for use at the opening of the 1928-29 session. This unit cost approximately \$250,000, and has a floor area of approximately 52,000 square feet. It includes offices for the Engineering faculty, laboratories and class rooms for departments of Architectural, Civil, Electrical and Mechanical Engineering and Engineering Drawing. Approximately \$70,000 has been expended for apparatus for these laboratories.

Chemistry Building.—The Chemistry Building is 240 feet long and sixty feet wide, one wing extending back 100 feet. There are two stories, a full basement and, at the east end, a low tower. Although designed primarily as a Chemistry Building, it houses for the present the Departments of Biology, Geology, Physics, and Chemistry.

The Agricultural Class Rooms, erected in 1927, contain offices, class rooms and laboratories for part of the School of Agriculture.

The College Bookstore, reconstructed building devoted temporarily to the accommodation of the bookstore, which retails supplies.

Building and Grounds Shop, contains head quarters for the janitors and the building and grounds working force.

The Cafeteria, erected in 1925, a brick and stucco structure modernly equipped and containing, in addition to the kitchen and dining room, offices and a small class room.

The Dairy Barn, erected in 1925, contains milking rooms with stalls for forty cows; dressing rooms, feed rooms, cooling and milk rooms.

The Greenhouse, erected in 1927, twenty-five by seventy-five feet, with an independent heating plant. Equipped for laboratory work.

The Gymnasium, erected in 1926, a temporary field house of tile and stucco, containing offices, lockers, and showers. The playing floor is fifty by ninety feet. The seating capacity is approximately 1,400. This building is also used as a convocation hall.

The Heating Plant, erected in 1925 as part of a permanent structure, provides heat and water for college purposes.

The Mechanical Engineering Shop, erected in 1926, is a tile and stucco structure, fifty by 100 feet, containing the pattern-making shop, machine shop, and elementary mechanical engineering laboratory.

The Stock Judging Pavilion, erected in 1925, is a tile and stucco building containing a large arena and tiered seats. There are also class rooms.

FACILITIES

The College is provided with a system of sewers; a pressure water distributing system supplied from its own well, water tower, and mains; a permanent lighting system; complete gas lines for the distribution of natural gas; and a complete series of electric circuits and telephone circuits. Heating tunnels of permanent construction connect the principle buildings with the power plant and contain the various distributing systems.

CAMPUS GROUNDS

The campus is permanently planned and a definite system of parking and development is being followed, with the result that lawns, shrubbery, flowers, and gardens surround the principal buildings.

FARM

The College property comprises approximately 2,000 acres, of which that part not devoted to the campus is available for the use of the School of Agriculture. There is equipment of barns, silos, out-buildings, fences, and a water system, together with pastures and lands devoted to crops and used for laboratory purposes.

ORGANIZATION

GOVERNMENT

The government, control, and direction of the policies of the College are vested in a board of nine directors appointed by the Governor for terms of six years.

ADMINISTRATION

The direction of the affairs of the College is delegated by the Board of Directors to the President and the Faculty.

OPERATION ORGANIZATION

The College is at present organized into four distinct but closely co-operating units or schools. These are supplemented by two other units for efficiency in the conduct of the work of the Institution as a whole. There is thus the following organization:

(1) Resident Teaching:

The School of Liberal Arts.

The School of Engineering.

The School of Home Economics.

The School of Agriculture.

(2) Extension:

The Department of Extension.

(3) Plant Operation.

The Business Manager.

DEPARTMENTS OF INSTRUCTION

The College offers instruction in thirty-six different departments which are grouped in the several schools. Each of these schools has its own dean, its course of study, its requirements for entrance and for graduation. A specific degree is given for graduation; for the School of Liberal Arts, the degree of B. A.; for the other schools it is B. S., with an indication of the special subject in which the degree is taken.

The four schools with their various departments are as follows:

THE SCHOOL OF LIBERAL ARTS

Biology.	History.
Chemistry.	Latin.
Economics and Business Administration.	Mathematics.
Education and Psychology.	Military Training.
English.	Music.
French.	Philosophy and Sociology.
Geology.	Physical Education.
German.	Physics.
Government.	Spanish.
	Speech.

THE SCHOOL OF ENGINEERING

Architecture.	Mechanical and
Civil Engineering.	Chemical Engineering.
Electrical Engineering.	Textile Engineering.
Geological Engineering.	Engineering Drawing.

THE SCHOOL OF AGRICULTURE

Agricultural Economics and	Animal Husbandry.
Farm Management.	Horticulture and Genetics.
Agronomy.	Dairy Manufactures.

THE SCHOOL OF HOME ECONOMICS

Applied Arts.	General Home Economics.
Clothing and Textiles.	Home Economics Education.
Foods and Nutrition.	

DISCIPLINE

Discipline is delegated to a Faculty Committee for the men and for the women respectively. The regulations are designed with a view of securing consistent conformity to the following:

Every student is expected to conform to the rules of ethics and of gentlemanly or womanly conduct; to respect the rights of others; to be truthful; to attend punctually and regularly all required classes and exercises; to be diligent in his studies; to respect and keep the laws of the city, state, and nation; to preserve and respect the College property.

To the end that particular duties and regulations may be understood, a part of this catalogue sets these forth in some detail.

THE LIBRARY

The Library has acquired, by gift and by purchase, approximately 57,383 books, maps, manuscripts and pamphlets, of which about 21,571 have been catalogued.

This material comprises general and special encyclopedias, both English and foreign; general literature, English and foreign texts; treatises on subjects taught in the College; back numbers of periodicals and serials, both general and technical, mostly unbound, the nucleus of a fair working collection of State and Federal documents, and the beginning of a collection of historical manuscript sources for the history of Texas. The latter comprises miscellaneous papers bearing on the history of Texas; a collection of papers connected with the estate of James Bowie, etc., the gift of Arthur Duggan, Littlefield, Texas; and a collection of records of the Spur Ranch, the gift of Clifford B. Jones, President of the Board of Directors. Through the courtesy of the State Library, photostatic copies are being made for the Library of a small collection of papers connected with the Castro Colony, deposited in the Library by Mrs. Richard Holdsworth, Kerrville, Texas.

As a recently designated depository of the Carnegie Endowment for International Peace, the Library has the promise of receiving future publications of the Endowment, which will go far toward building up the International Law selection.

On the periodical racks and stack shelves are about three hundred general and special magazines and fifteen newspapers, acquired partly by gift, partly by purchase. The Wilson indexes, the New York Times Index, and a complete file of the United States Daily, including the bound rag paper edition, form an especially important part of the periodical equipment.

The well-known formula of library effectiveness, "Five per cent building, 20 per cent books, 75 per cent service," is an important part of the life philosophy of the Library.

It is hoped that the Library may in the near future become an increasingly important part of the civic and cultural life of the Panhandle Plains Country and of all Texas.

PLAINS MUSEUM SOCIETY

The object of the Plains Museum Society, organized during 1929, is to foster, increase, and diffuse knowledge and appreciation of the history, science and art among the people of this section of the State. Membership is open to any person actively interested in the work of the Society. A good beginning has been made in collecting objects of scientific, historic, and artistic value, which are being held and in part exhibited at the College.

THE COLLEGE BOOKSTORE

The College Bookstore, located in a frame and stucco building on the campus, is owned and operated by the College. The Bookstore carries in stock all required text books, books for extension courses, all supplies and equipment needed in any of the specialized courses, and

an assortment of stationery and athletic supplies. Branches of the Bookstore are operated in the corridor of the Administration Building and in the Engineering Building. At the end of the Spring term the Bookstore makes a practice of purchasing from students books which are to be used in the College the following year.

THE CAFETERIA

The College maintains on the campus a cafeteria operated under the supervision of the School of Home Economics. The Cafeteria dining room is open for breakfast, dinner and supper. In addition to its regular use the Cafeteria dining room may be used for committee meetings, club meetings or discussion groups by students and faculty. After one o'clock in the afternoon and extending through the evening, the cafeteria dining room may also be used for private or club parties, luncheons or dinners. An effort is made to keep the price of food as low as compatible with high standards of service and food.

ATHLETICS

INTERCOLLEGIATE ATHLETICS

The College fosters various branches of intercollegiate athletics, and has provided a coaching staff, grounds, gymnasium and equipment for football, basketball, baseball, track and tennis. All intercollegiate athletics are supervised by the Athletic Council of the College.

INTRAMURAL ATHLETICS

Various forms of competition in athletics are brought about in the required courses in Physical Education. Every opportunity is offered for organized and for informal games and contests among the students. As far as time permits, such activities are given the personal supervision of the regular staff of instructors and coaches.

CO-EDUCATION

The bill by which the Texas Technological College was established provides that the institution shall be co-educational, a policy which the management of the institution is pleased to make its own. Consequently, from the day the doors first opened, young women and young men have been admitted on an equal basis.

DEMOCRACY OF SPIRIT

In a great democracy like our own, it stands to reason that democracy of spirit among our student body makes possible the best preparation for a democratic citizenship.

Class distinction is frowned upon, hazing and secret societies, espe-

cially Greek letter social fraternities, are forbidden by the Board of Directors, and every student is encouraged to make a place for himself of real worth to himself and to his community.

OFFICIAL PUBLICATIONS

The official publications of the College at the present time consist of the official bulletin, published twelve times a year. One issue is the general catalogue; the other issues are descriptive of the various activities and the needs of the institution as they appear from time to time.

ENTRANCE

The Registrar of the Texas Technological College has charge of all matters relating to admission to any school or schools of the College. All communications regarding entrance requirements should be addressed to him.

GENERAL ADMISSION REQUIREMENTS

Admission to the College is open to students of good moral character, both men and women, who can meet the entrance requirements, including the college physical examination, and are able to profit by the work of the College. Applicants should bring with them a certificate of successful vaccination against smallpox or should be vaccinated after coming to Lubbock.

TRANSCRIPT OF HIGH SCHOOL CREDITS

Students proposing to enter the College from high schools should have a transcript of their high school credits sent to the Registrar of the Texas Technological College by September 1st of the year in which they wish to enroll. This transcript should show that the student has been graduated from the high school with not less than fifteen units, and should be signed by the superintendent or the high school principal.

Fill in the form below, cut out and mail:

This is to certify: 1. That _____ is of good moral character. 2. That he attended the _____ High School for at least one full session. 3. That he was graduated on the _____ day of _____, 19____. That he is recommended as able to carry forward college studies on the basis of h_____ work done in this school.

Signed _____ Superintendent or Principal.

HIGH SCHOOL ACADEMIC RECORD

SUBJECTS	No. of Periods	Length of Periods	Grade of Work	SUBJECTS	No. of Periods	Length of Period	Grade of Work
English (3 or 4) _____				History: Ancient (1) _____			
Comp. and Rhetoric _____				American (½ to 1) _____			
American Literature _____				Med. and Modern (1) _____			
English Literature _____				Civics (½ to 1) _____			
Algebra (1 or 2) _____				Economics (½ to 1) _____			
Plane Geometry (1) _____				Science: General (1) _____			
Solid Geometry (½) _____				Physics (1) _____			
Adv. or Com. Arith. (½) _____				Chemistry (1) _____			
Foreign Language (not less than 2 in one language) _____				Biology (1) _____			
				Physiology (½) _____			
				Physiography (½) _____			
Other Affiliated Subjects _____				Other Affiliated Subjects _____			

All entering freshmen are required to be in attendance Wednesday, September 17, 1930, for the purpose of becoming better acquainted with the Institution, its opportunities, and the scope of the educational work offered. The students' duties and responsibilities will be explained, and they will be given suggestions as to how to care for their health and how to budget their time. Advice and suggestions will be offered relative to the requirements, training, and opportunities of the general course of study which the freshman selects. A definite program is followed and all freshmen are required to be on hand and ready for work at 9:00 a. m. Those who apply later will be more or less at a disadvantage in their regular college work, once classes start. Plans for the registration the next day will be a part of the program.

TRANSCRIPT OF COLLEGE CREDITS

Students who have attended other colleges and have made good in such colleges will be welcomed in Texas Technological College if they feel that their particular needs can be better met at this institution. In such cases they should have the registrar of the college attended send a transcript of their college credits, including entrance units, to the Registrar of the Texas Technological College. Such transcript should certify honorable dismissal from the last institution attended, and should be forwarded to the College at least five days before the date on which the student expects to enter.

ADMISSION BY HIGH SCHOOL CERTIFICATE

Graduates of accredited high schools presenting a minimum of fifteen units* will be admitted to the freshman class of the College without examination. For unconditional admission to a particular school of the College the specific requirements of that school must be met.

For the School of Liberal Arts see page 61.

For the School of Engineering see page 126.

For the School of Agriculture see page 160.

For the School of Home Economics see page 190.

*A unit represents nine months of high school study of five class periods a week at least forty minutes long, consisting of approximately one-fourth of a year's work.

Subjects Accepted for Admission.—Below is a list of subjects accepted for admission, with the number of units that may be offered in each subject:

Advanced Arithmetic, $\frac{1}{2}$	Latin, 2 to 4
*Advertising, $\frac{1}{2}$	Mechanical Drawing, $\frac{1}{2}$ to 4
*Agriculture, $\frac{1}{2}$ to 1	Modern History, 1
Algebra, 1 to 2	Music, 1 to 4
American History, $\frac{1}{2}$ to 1	*Office Practice, $\frac{1}{2}$
Ancient History, 1	Physics, 1
Art, 1 to 4	Physiography, $\frac{1}{2}$
Bible, $\frac{1}{2}$ to 1	Physiology and Hygiene, $\frac{1}{2}$ to 1
Biology, 1	Plane Geometry, 1
*Bookkeeping, 1 to $1\frac{1}{2}$	Psychology, $\frac{1}{2}$
Botany, 1	Public Speaking, $\frac{1}{2}$ to 1
Chemistry, 1	*Retail Selling, $\frac{1}{2}$
Civics, $\frac{1}{2}$ to 1	*Salesmanship, $\frac{1}{2}$
Commercial Arithmetic, $\frac{1}{2}$	School Management, $\frac{1}{2}$
Commercial Geography, $\frac{1}{2}$	*Shop Work, $\frac{1}{2}$ to 4
Commercial Law, $\frac{1}{2}$	Sociology, $\frac{1}{2}$
*Design, $\frac{1}{2}$ to 1	Solid Geometry, $\frac{1}{2}$
Economics, $\frac{1}{2}$	Spanish, 2 to 4
English History, $\frac{1}{2}$ to 1	*Stenography and
English, 2 to 4	Typewriting, 1 to 2
French, 2 to 4	Trigonometry, $\frac{1}{2}$
General Science, 1	*Typewriting, $\frac{1}{2}$
German, 2 to 4	*Vocational Agriculture, 1 to 4
*Home Economics, $\frac{1}{2}$ to 4	World History, 1
Hygiene and Home Nursing, $\frac{1}{2}$	Zoology, 1

ADMISSION BY EXAMINATION

In case a student is graduated from a high school which does not offer a full fifteen accredited units, he may then enter the freshman class after passing entrance examinations sufficient to bring the total to fifteen units. In the spring each year entrance examinations are held throughout the State under the supervision of the State Department of Education. The examinations held in May are conducted in each county, and the papers are graded by the State Department of Education at Austin. Subjects successfully passed and certified to by the State Department of Education or by the Department of Extension of the Texas Technological College will be accepted for entrance, provided they are subjects that meet our requirements.

At the opening of the fall, winter and summer terms, the College gives entrance examinations to those who need credits for entrance. Students desiring to take entrance examinations on other dates may do so by paying a fee of \$2.50.

*Vocational subjects. Not more than four units in vocational subjects may be used.

SCHEDULE OF ENTRANCE EXAMINATIONS

FALL TERM, 1930-31

Monday, September 15

Forenoon		Afternoon	
8:00-10:00	10:00-12:00	1:00-3:00	3:00-5:00
English I and II	Economics	Algebra I	Algebra II
Biology	Botany	Eng. History	Sociology
Adv. Arithmetic	Am. History	Old Testament	New Testament
General Science	Physics	Civics	Physiography

Tuesday, September 16

Forenoon		Afternoon	
8:00-10:00	10:00-12:00	1:00-3:00	3:00-5:00
English III	English IV	Zoology	Physiology
Typewriting	Stenography	Com. Geography	Com. Law
Man'l Training	German	Drawing	Bookkeeping
	Chemistry		

Wednesday, September 17

Forenoon		Afternoon	
8:00-10:00	10:00-12:00	1:00-3:00	3:00-5:00
Plane Geometry	Ancient History	French	Domestic Art
Solid Geometry	Modern History	Spanish	Domestic Science
Trigonometry	Latin	Public Speaking	Agriculture

SCHEDULE OF ENTRANCE EXAMINATIONS

WINTER TERM, 1930-1931

January 2, 1931

Forenoon		Afternoon	
8:00-10:00	10:00-12:00	1:00-3:00	3:00-5:00
English	Mathematics	History	Science

January 3, 1931

Forenoon		Afternoon	
8:00-10:00	10:00-12:00	1:00-3:00	3:00-5:00
Foreign Language	Civics	Stenography	Domestic Art
Typewriting	Bookkeeping	Agriculture	Domest. Science
Manual Training	Public Speaking	Commercial Law	Economics
	Drawing	Com. Geography	Bible

SCHEDULE OF ENTRANCE EXAMINATIONS

SUMMER TERM, 1930-31

June 8, 1931

Forenoon		Afternoon	
8:00-10:00	10:00-12:00	1:00-3:00	3:00-5:00
English	Mathematics	History	Science

June 9, 1931

Forenoon		Afternoon	
8:00-10:00	10:00-12:00	1:00-3:00	3:00-5:00
For'n Language	Civics	Stenography	Domestic Art
Typewriting	Bookkeeping	Agriculture	Domestic Science
Manual Training	Public Speaking	Commercial Law	Economics
	Drawing	Com. Geography	Bible

The requirements of the State Department of Education hold concerning the submitting of notebooks. Notebooks are required for the following subjects: Agriculture, Biology, Botany, Zoology, Physiology, Chemistry, Physics, General Science and Physiography.

Entrance examinations for the summer term of 1930 will be given May 30, 31.

ADMISSION BY STATE TEACHERS' CERTIFICATE

An applicant holding a State teachers' certificate based on State examination will receive credit in proportion to the number of acceptable subjects taken for the certificate.

Applicants holding teachers' certificates granted by the State Board of Education are requested to submit their reports from the State Board of Examiners and they will be given credit for affiliated subjects on which they have passed the State examinations.

ADMISSION BY INDIVIDUAL APPROVAL

At the discretion of the dean of the particular school, mature students (twenty-one years of age or over) may be admitted to college classes without having met the formal entrance requirements. Admission in this manner is allowed only in the case of applicants who present evidence that they have essentially completed the high school credits required for regular admission and whose records show them to be above the average in ability as students. Such admission does not confer special privileges, but, on the contrary, puts the applicant under special obligations. Each applicant proceeds as follows:

(1) He must make application on the official blank (to be had of the dean), giving the information there desired.

(2) He must furnish evidence that he has substantially covered the ground of the units required of other candidates, and that he has sufficient ability and seriousness of purpose to do the work desired with profit to himself and to the satisfaction of the College.

(3) He must show, by the writing of a composition, that he has an adequate command of English.

The applicant is advised to send his application and credentials in advance of his coming to Lubbock. He must present himself at the office of the dean of the school he wishes to enter, for a personal interview before he will be accepted.

Admission by individual approval is designed only for those applicants who have not recently attended school and therefore could not pass the admission examinations.

Neglect of work or other evidence of lack of serious purpose on the part of a student thus admitted will cause the dean to withdraw approval, thus severing the student's connection with the College and preventing his re-admission until he has satisfied all admission requirements.

Students who are admitted on individual approval cannot use any high school credits which they may have, but must make the entire fifteen required units by high grade work the first year and by special examinations within two years after admission.

Students admitted by individual approval cannot become candidates for degrees until they have satisfied the admission requirements.

Students admitted by individual approval to freshman English will, on completing the year's work in that subject, be given credit also for three admission units in English. Similarly, students admitted to freshman mathematics will, on completing the year's work in that subject, receive credit also for two admission units in algebra and one in plane geometry. Further, students admitted to the College by individual approval and making, during their first long session, at least 45 term hours, with an average grade of C, will, in addition, absolve the admission condition in the five elective units. If this average is not made, the five elective units and the four other prescribed units must be made up by entrance examinations or by extra college subjects within two years from the date of admission.

ADMISSION WITH CONDITIONS

To enroll in the College a student must offer a certificate of graduation from an accredited high school with fifteen affiliated high school units. Included in the fifteen units must be three units of English and one each in plane geometry and algebra if the student enters without conditions. However, if he is able to present fifteen accredited units which do not include mathematics, he may be admitted to the freshman class, except in the School of Engineering, provided the conditions are all removed by examination or otherwise before he can be enrolled in any sophomore courses in the College. These conditions may be removed by work taken under the Department of Extension. The first course in any of the modern foreign language courses (131-2-3 or Latin 101-2-3) may be used to absolve the two entrance units in this language, but of course it cannot at the same time earn college credit.

ADMISSION TO ADVANCED STANDING

Students transferring from other colleges which have four grade letters will be given credit for those courses only that have been passed with a grade which is one letter above the passing grade in the institution from which the student comes; and then only when such courses or their equivalent are given for credit in Texas Technological College. Furthermore, any transfer who expects to be graduated from Texas Technological College must meet the regular requirements for graduation and must complete a minimum of forty-five term hours in this institution. This does not apply to School of Engineering. See page 128.

REGULATIONS FOR STUDENTS

ABSENCE FROM CLASSES

1. Students are required to be diligent in the pursuit of their studies and regular in their attendance at classes. Those who fail to meet these requirements will be requested to withdraw from college.

2. Students are required to attend all meetings and examinations of courses for which they are registered. For each twelve absences per term in any or all subjects, the student will be required to complete one extra hour for graduation. The grade point rule is to apply to extra hours thus required.

3 (a) Absence on field trips and with athletic teams, debating teams, judging teams, or other organizations which leave the College on official work, and absences of individuals who are permitted by the President or the Deans to leave the College on official business pertaining to the College or some organization thereof, are counted at half rate, provided the coach, manager or other person in charge filed with the Registrar at least twenty-four hours before the student leaves the College a certificate upon a form prescribed by the College for each student who proposes to make a trip, and provided the same is approved by the dean of the school in which the student is enrolled, before the student leaves the College.

(b) Absences due to sickness of the student count at half rate provided he files in the office of the Registrar within one week after his return to classes an official "Physician's Approval of Absence" card for the period of his illness, signed by the college physician.

(c) Absence due to illness or death in the student's family will count at half rate when approved to the Registrar by the dean of the school in which the student is enrolled.

4. (a) Students for whom absence approval cards are filed in accordance with the regulations stated above under (a), (b), and (c) of paragraph 3, may have the privilege of making up the lost recitations as evidenced by handing in written work or in some other manner satisfactory to the instructor concerned. When such missed recitations have been made up, the remaining absences are removed.

(b) Applications for the privilege of making up absences as in (a) of paragraph 3 must be made in writing to the Registrar and approved by the dean of the respective school within one week from the time of the return of the student to the College. A form prescribed by the College for this purpose will be furnished by the Registrar.

DOUBLE CUTS

Each absence on the two days preceding or on the two days following any holiday counts as two, except as provided for in paragraph 3b, 3c and 4a.

ADDING SUBJECTS

If it appears desirable for a student to take up an additional subject, after the regular registration period, the procedure should be as follows:

(1) Permission from the dean of the school in which the student is enrolled should be obtained.

(2) Approval of the instructor of the subject should next be obtained on duplicate add cards supplied by the dean's office.

(3) The dean's approval of the add cards should then be obtained.

(4) The student should present the approved duplicate add cards to the business office and pay a fee of \$1.00.

DROPPING SUBJECTS

If it appears advisable for a student to drop a subject he should first obtain permission from the dean of the school in which he is registered. Students' names will be kept on the rolls and absences reported until the instructor receives notice from the registrar's office that the dean has approved the dropping of the subject.

CHANGE OF SECTION OF SUBJECTS

After completion of his registration a student may change from one section of a subject to another only with the approval of the dean of his school and the instructors concerned. A fee of \$1.00 must be paid for the change.

TERM HOUR

The unit of calculating credit in the College is the "term hour." One hour a week of class work for a term of twelve weeks is counted as one "term hour."

A "term hour" is given in a subject for each three hours of student time that it requires per week for a term. Each recitation demands two hours of preparation, thus making the number of recitations per week equal to the term hour value of the subject. The term hour value of a laboratory subject is equal to the number of three-hour periods per week where no outside work is necessary. The second digit of any subject number indicates its term hour value.

MAXIMUM NUMBER OF TERM HOURS ALLOWED

In the case of weak students, the normal student load may be reduced. The limit will not be exceeded without a sufficiently high grade average. Students earning all or part of their expenses while in college are not allowed to register for over twelve term hours if their outside duties demand as much as three hours per day. This limit may be increased by the dean of the school in which the student is registered, in accordance with the nature of the employment and if the student's record shows a sufficiently high average grade.

GRADES

The standing of a student in his work is expressed by grades made up from class work and from examinations. The grades used are: A, excellent; B, good; C, fair; D, passing; E, condition; Inc., incomplete; W, withdrawal from the course; F, failure. A plus grade and a minus grade may be used at the instructor's discretion to make finer distinctions above and below the letter given. Thus, if "A" is 90 to 100, "A" minus is low, and "A" plus is high within that range; likewise, "D" minus is barely passing.

Grades are given by terms, but where the student's curriculum requires the completion of a subject, two-term or three-term courses will not count for a degree until credit has been received for the entire required course.

Grade of "E"

Definition: A student who fails to pass in a course but makes a grade of "E" is conditioned. The grade of "E" is to be very carefully distinguished from the grade of "Inc." In all cases of future assignments, prerequisites, or activities requiring a passing grade, it is to be regarded as "F" until removed, except for entrance to the succeeding term of a continuous course of not over three terms.

Removal of condition: It shall be the duty of the student who has received "E" to consult his instructor within four weeks after the beginning of his next term of residence to determine the method of the removal of the condition.

The student must remove the condition in one of four ways designated by the instructor:

(1) By a second examination within four weeks after the beginning of the next regular term. This examination must be passed with a grade of at least "C," and if so passed the term grade becomes a "D." The grade of a student who fails to meet this requirement becomes "F."

(2) By creditable work the following term in a course continuing beyond one term. Under this requirement the student must register in a section taught by the instructor who assigned the grade "E." The grade of a student who complies with this requirement becomes "D."

(3) By satisfactory completion of special assignments submitted in writing by the instructor and approved by the head of the department. The grade of a student who complies with this requirement becomes "D."

(4) By re-registration for the course in which the "E" has been assigned. The original grade will, under this method, be supplemented by the grade obtained in repetition of the course.

Recording of the removal of the condition: In any action under provisions (1), (2), or (3), for the removal of a condition, the instructor

will transmit to the Registrar the grade of "D" or "F." The Registrar in recording the new grade will leave grade "E" upon the record. When an "E" stands without action for one year it becomes "F."

The responsibility of seeing the record cleared of a condition rests upon the student.

Grade of "Inc"

Definition: The grade of incomplete ("Inc") may be given by the instructor whenever the student's work in the course indicates a major deficiency in quantity (but is sufficient in quality), provided the deficiency has been occasioned by causes beyond the student's control.

Completion of the work: The student shall initiate a petition to the Dean of the School in which he is enrolled within four weeks after the beginning of the next regular term of residence after the grade of "Inc" was given for permission to complete the work reported incomplete. The Dean and instructor in joint conference shall decide whether the work may be completed or the grade become "F." The Dean may extend the time for initiating the petition. The student who fails to initiate his petition within the time limit stated shall (unless the time be extended by the Dean) forfeit all privileges of completing the work, and the grade becomes "F." Upon receiving permission, the student shall complete the work in whatever manner and within whatever time the instructor specifies, provided that the time shall not exceed one year from the giving of "Inc".

Record of "Inc": The instructor shall note on the reverse of the grade card the reason "Inc" was given, the quality of the work done, a brief summary of the work to be done, and the time allowed for doing the work. The instructor shall transmit the new grade to the Registrar and the Registrar in recording the new grade shall supplement the original grade with the one later obtained.

When an "Inc" stands for one year without action it becomes "F."

The responsibility of seeing the record cleared of "Inc" rests upon the student.

The Grade of "W"

A student who withdraws from a course before mid-term receives no grade, and his name is not entered on the final grade sheet.

A student who withdraws from a course on or after mid-term receives a grade of "W" if his work is of passing grade; otherwise the grade is "F".

A student who transfers from one section to another receives no grade in the original section, and his name is not entered on the final grade sheet for that section.

Grade of "F"

Definition: The grade of "F" is given for failure in the course and also whenever the student withdraws from a course on or after mid-term when he does not have a passing grade in the subject.

COURSE NUMBERS

The numbers used for designating the courses are uniform. Reckoning from left to right the first digit indicates the College year in which the course is normally offered; the second digit shows the term hour value of the course, while the other digit or digits represent the course number. A course complete in one term is described under one number, a course which extends over two or three terms carries a course number joined by a hyphen for each additional term after the first, e. g., English 131-2-3, or Industrial Engineering 4311-12-13, meaning that a subject extends over three terms.

GRADE POINT REQUIREMENTS FOR GRADUATION

To secure any degree in this College, the total number of grade points a student has received must equal or exceed the total sum of the term hours for graduation. For grade A, three grade points are awarded for each term hour; for grade B, two points; for grade C, one point; for grade D, no points.

No grade points are required or allowed for credits accepted from other institutions, for credits made in this College prior to September 1, 1926, or for credits made in the two years of required physical education or physical or military training. A student who has the number of term hours required for graduation, but not the corresponding number of grade points, may satisfy the grade point requirement by taking additional courses until the grade point requirement has been met.

DEFICIENCIES IN ENGLISH

Students in any of the schools of the College who are found to be notably deficient in the fundamentals of English composition will be required, under the direction of the Department of English, to remove such deficiency before graduation.

PHYSICAL TRAINING

Physical training is required of all freshmen and sophomores, both men and women, unless excused upon recommendation of the College physician.

SCHOLARSHIP PROBATION

A student who fails to pass approximately nine hours or three subjects for which he is enrolled in a given term is placed on scholarship probation by the dean of his school during the next term. This probation shall mean that:

(a) The student may not register for more than four courses, approximately twelve hours.

(b) In order to allow more time for studies he shall not be permitted to represent the College in any intercollegiate contest during his period of probation.

(c) Lack of interest in his studies as evidenced by unnecessary absences will result in his suspension from the rolls of the College.

(d) A satisfactory grade reported at mid-term will remove the student from the probation status.

This does not apply to students who are permitted to register for nine hours or less.

WITHDRAWAL FROM COLLEGE

A student who finds it necessary to withdraw from the College before the close of the term should apply to the dean of the school in which he is registered for permission to withdraw. A student under twenty-one years of age should first consult his parents and should bring with him a written statement showing that he has his parents' permission to withdraw. If the dean is convinced that withdrawal is necessary, the student will be given honorable dismissal from the College.

SUSPENSION FROM COLLEGE

If a student convinces the authorities of the College that he is proving an unworthy citizen of the College community and fails to react in the right way to the counsel given him, such a student is dropped from the institution's class rolls. Such suspension may be for the remainder of the term or of the school year, or it may be made permanent. In no case are fees remitted to a student suspended from school by the College authorities.

HAZING

Hazing is forbidden by the law of the State and by the College regulations.

WARNING ON STUDENT CHECKS

Students are urged to exercise care in paying fees or making campus purchases by checks. A returned check calls for a penalty. Warning will be issued either by telephone or by letter to the student, and if the check is not taken up at once, the matter will be referred to the dean of the proper school as a discipline case. If the check is not redeemed then within seven days, the student may be dropped from the College roll. The College will not accept a check from a student who has once given a bad check.

HOUSING REGULATIONS

The College has a faculty committee on student housing. This committee furnishes a list of approved rooming and boarding houses for men and women.

Board and room may be secured generally at from \$27.50 to \$35.00 per calendar month. The housing committee has always been able to provide ample accommodations for all students. Room and board should be paid for in advance, but the College does not assume any responsibility for the payment or collection of such bills.

Any complaint regarding care of rooms, improper food, disorder, or any other condition which makes a place undesirable for students should be reported to the housing committee.

INSPECTION AND APPROVAL

To be placed on the approved list a rooming house must be inspected and approved by the committee and must fully meet the following conditions:

1. The house must be in good repair. It must be provided with sewer connections, hot and cold running water, adequate screens, and heating facilities.

(2) The proprietor must be of good moral character and must agree to co-operate with the committee in carrying out housing regulations.

(3) The proprietor and family must live in the rooming house at all times and exercise supervision over the students therein.

(4) The conditions and the facilities required in paragraph (1) must be maintained. The house must be adequately heated and lighted.

(5) Proprietors are requested to report to the housing committee all cases of serious illness among students.

(6) Proprietors are required to report to the College authorities immediately any serious misconduct on the part of students.

(7) Rooming house proprietors are required to see that proper conditions for study are maintained at all times. During the usual study hours at night, quiet should be maintained and unnecessary visiting prohibited. Habitual failure to study on the part of any student should be reported to the housing committee.

(8) All infractions of rules are to be reported by proprietors to the housing committee in the case of men students and to the dean of women in the case of women students. Failure to make such reports will necessitate the removal of the rooming house in question from the approved list.

HOUSING REGULATIONS FOR STUDENTS

(1) Men and women students are not allowed to room at the same place.

(2) Not more than two students are permitted to live in one room.

(3) Special regulations for men students and for women students are stated separately in the pages that follow.

*Special Regulations Applying to Men Students
Not Residing With Their Parents*

(1) A student may not change his place of residence during any one quarter unless requested to do so by the proprietor or unless given permission to move by the housing committee. Requests to move must be made in writing to Mr. Cecil Horne and permission to move will be granted only in writing. Permission to move will not be withheld where there is a good reason for moving.

(2) Moving from one house to another in violation of paragraph (1), without permission in advance, will subject the student to serious discipline at the hands of the College authorities.

(3) During the usual study hours at night, in order that conditions for study may prevail, quiet is to be maintained and unnecessary visiting is prohibited.

(4) The housing committee does not consider it desirable for students to live in bachelor quarters. Only in special cases will permission be granted to men students to live in garages or apartments where they are not under the direct supervision of some responsible person who has the approval of the committee. In such cases the student must secure the written permission of his dean after securing the approval of the housing committee.

REGULATIONS FOR WOMEN

General Regulations

1. All women students going on out-of-town trips sponsored by the College are required to register in person in the office of the Dean of Women before leaving.

2. Women students going on out-of-town trips sponsored by the College are at all times under the direction of the chaperons sent by the College and are subject, whether they are resident or non-resident students, to the same disciplinary regulations.

3. Before leaving town for any College trip necessitating absences from class, students must ascertain from the deans of their schools whether or not their scholastic standing will permit such absences.

4. All College social affairs are under the supervision of the Faculty Social Activities Committee. Women students, both resident and non-resident, are subject to the regulations made by this committee.

Special Academic Regulations

Regulations in the School of Liberal Arts.—In certain matters

pertaining to academic work, students are responsible to the Dean of Women. These include the following items.

- (1) Absence from classes.
- (2) Honorable dismissal from College.
- (3) Scholarship probation.
- (4) Changes in schedule.

Regulations in the School of Home Economics.—In all matters pertaining to academic work students are responsible to the Dean of the School of Home Economics. These include the following items:

- (1) Absence from classes.
- (2) Honorable dismissal from College.
- (3) Scholarship requirements.
- (4) Scholarship probation.
- (5) Individual approval.
- (6) Changes in schedule.

Special Regulations Applying to Women Students

Not Residing With Their Parents.

1. Women students will not be allowed to live in a house not on the official list except by special permission of the Dean of Women.

2. A student who engages room, or room with board, may not change her place of residence during the term except by request of the proprietor, or by permission given by the Dean of Women, upon the written request of parents or guardians. Students are expected to file with the Dean of Women a written request for change of residence two weeks before such a request would become operative.

3. A student who is sent to the hospital shall continue to pay her room rent in full for the month and shall pay board in full for the first three days.

4. Non-resident students may not leave town without permission from the Dean of Women. Requests for such permission must come from the parents or guardians of the students.

5. Housemothers are expected to notify the Dean of Women when a student is called home suddenly.

6. No student will be allowed to change room or roommate without permission from the housemother.

7. Quiet hours shall be maintained every night after 7:30 during the long session and after 8:30 during the summer sessions except on Friday and Saturday nights, holidays, and nights preceding holidays. This rule applies to all women's rooming houses and dormitories.

8. All women students residing in rooming houses and dormitories are required to register with the housemother before going out in the evening.

9. Women students may have only three dates a week—two on week nights and one on Sunday night.

10. Except in the case of formal parties and dances, students are expected to be in their rooms by 11 p. m. on date nights. On nights other than date nights students are expected to be at home by 10 p. m.

11. Women students may attend only those dances that are approved by the College. Notice of these dances is given on the College Calendar.

12. All engagements are subject to the approval of the house-mother.

13. Women students are not permitted to go to the dormitories and boarding houses of men students except upon special invitation and under proper chaperonage.

14. Women students will not be allowed to spend week-ends in town with friends except by special permission from home.

15. Women students are not allowed to have guests over night except for week-ends. Arrangements for such guests must be made with the housemothers.

16. No telephone calls, except long distance calls, are to be answered by students during quiet hours.

17. Men students are not expected to call at dormitories or boarding houses during the day, either by telephone or in person, except during visiting hours.

18. Visiting hours are from 6:30 to 7:30 p. m. in the long session, and from 7:30 to 8:30 p. m. in the summer sessions. No visitors are permitted on Sunday until 4:00 p. m.

19. Students will be permitted to use automobiles when going back and forth from school and attending social affairs. But permission to make out-of-town car trips must be obtained from the Dean of Women.

20. Housemothers are requested to report at once to the Dean of Women all cases of illness. All infractions of rules are to be reported to the Dean of Women. Failure to make such reports will necessitate the removal of the housemother's name from the approved list.

Special Privileges for Seniors and Juniors

Special privileges will be accorded Junior and Senior women students who have met specified requirements. Requests for special privileges must be made by the students themselves to the Dean of Women and notice will be given to the housemothers when such privileges have been granted. Students desiring such privileges must have the dean of their school certify to their satisfactory scholastic standing.

EXPENSES

UNIFORM FEES

The Texas Technological College, being a State institution, has no tuition fees. The enrollment and other incidental fees are very moderate, and are payable in advance. All fees are payable at the beginning of each term, and must be paid before the student's class card is sent to the instructor. The following are charged each term:

Registration and incidental fees	\$ 9.00
Library fee	1.00
Medical Service	1.50
Total	\$11.50

Library Deposit (unused portion returnable at end of year or upon student's withdrawal from College) \$ 5.00

Student activities fee (not compulsory), \$10.00 a year.

The \$1.50 for medical service is required of all students whether they reside with their parents or live elsewhere.

In addition to the above, laboratory fees are charged for certain courses where the laboratory work is a part of the course.

The registration and incidental fee is payable upon registration and is not refunded except for urgent cause. In no case will a refund be made after ten days.

SPECIAL FEES

FEES FOR SPECIAL COURSES

There is no extra charge for the numbered courses in music and public speaking which are given as regular college courses. For private work the charges are as follows:

Voice, Mrs. Scoggin, 2 lessons per week, per term	\$36.00
Voice, Mrs. McKnight, 2 lessons per week, per term	30.00
Piano, Miss Huff, 2 lessons per week, per term, and one class lesson in theory	30.00
Piano, Mrs. George, 2 lessons per week, per term, and one class lesson in theory	30.00
Violin, Mrs. Knickerbocker, 2 lessons per week, per term	30.00
Expression, Mrs. Mowery, 2 lessons per week, per term	18.00

LABORATORY FEES AND DEPOSITS

Students pursuing laboratory courses are required to pay such laboratory fees and deposits as are specified. The fees are intended to cover a part of the cost of the materials used. In the case of deposits for breakage, there is a refund of all unused deposits. The breakage deposit is made but once, unless the breakage exceeds the deposit.

Laboratory fees and deposits are payable at the time of registration. The laboratory fee for the current term is not returnable after ten days but fees for following terms may be returned in advance of starting upon the work of the term, if the student withdraws from the course.

LATE ENROLLMENT FEE

Any former student registering later than the day or days set apart for registering will be charged a late enrollment fee of \$2.00, as authorized by the Board of Directors, unless such lateness is caused by sickness or other unavoidable reason, and approved by the student's dean.

CHANGE OF SCHEDULE FEE

A student who changes his schedule after his registration is completed will be charged a fee of \$1.00.

STUDENT ACTIVITIES FEE

The Student Activities fee is for the support of the various important student activities on the campus. By student action it has been fixed at \$10.00 per annum and is an optional or non-required fee. This fee is paid on entering college in the fall at the time of registration, but it may be paid in a reduced amount at the beginning of the winter term, the amount at that time being \$5.00.

The payment of the Student Activities fee is for convenience to the student. By this means the student is put to a greatly reduced outlay and the agencies supported are enabled to function for the student's benefit. Payment of this fee entitles the student to admission to the regularly scheduled intercollegiate contests, games, and debates, which the College participates in on the campus, as well as an annual subscription to the Treador, the College weekly paper.

EXEMPTION FROM FEES BY REASON OF ENLISTMENT

Men and women enlisted in the service during the World War, who are citizens of Texas, are exempted from all fees. The discharge papers or service record of the student must be presented to the auditor or fee checker at the beginning of each term. All deposits are required of ex-service students.

MEDICAL SERVICE FOR STUDENTS

The Lubbock Sanitarium, in return for the \$1.50 collected from each student for medical service, agrees to render the following services to any student enrolled in Texas Technological College:

1. Each student will be given a thorough physical examination as soon as possible after his entrance into the school. In case of abnormalities, the student will be given advice, with a recommendation as to treatment.
2. Each student will be allowed free consultation with the school physician at any time that such consultation is desired.
3. The physician will make, without further charge, calls at the student's home, or at the hospital.
4. Each student will, in case of necessity, have free use of the hospital facilities of the Lubbock Sanitarium, including board, lodging and general nursing in the hospital, provided this does not exceed twenty-one days in any one school year. In the event of an epidemic, this limit may be reduced, and in case of necessity, the limit may be extended. Any reduction or extension will be made only upon the recommendation of the President of the College. These provisions apply only to the relief of acute conditions, and do not include special nursing unless authorized by the President of the College in cases where students are financially unable to employ a special nurse.
5. If an ambulance is required to carry the student to the hospital, this will be furnished without additional charge.
6. The student will receive without further cost any pathological or X-ray examination which may be needed.
7. Any minor surgical operations which may be needed by the student, such as for cuts, sprains, simple fractures, and vaccinations, will be performed for him without further cost.
8. The student will receive without further cost examinations and treatments by specialists for eye, ear, nose and throat difficulties. This, however, does not include operations for the removal of tonsils or for chronic nasal diseases or for special operations on the eye or ear.
9. On all operative work not covered by the medical fee, students will receive a discount of 25 per cent from the regular charge.
10. First aid service, consultation with the school physician, can be had at stated hours each day at an office provided by the College on the campus. This does not interfere with the provision in paragraph 3 above.
11. Daily services of a trained nurse can be had at the office on the campus during the school year at hours to be announced.
12. Members of the faculty of Texas Technological College and their families may receive medical and surgical attention at a discount of 25 per cent.
13. Casualty work for employees injured while on duty in their respective services for the College will be cared for by the Staff without

charge. This does not include hospitalization, and will apply only to those injured while on duty during working hours.

14. The Lubbock Sanitarium hereby agrees to report promptly to the Dean of Women of the College every case of illness among the girls of the College and to report to Dean Gordon every case of illness among the boys of the College, with an adequate statement of the nature of the illness.

15. The Lubbock Sanitarium agrees that all case records of students remaining in College after the period covered by this agreement will be available to the College authorities on request.

16. The Lubbock Sanitarium agrees to furnish the College quarterly reports of all services rendered to students under this agreement.

SCHOLARSHIPS AND PRIZES

High scholarship is the ideal of Texas Technological College. With the aim of promoting higher scholarship, a number of scholarships and prizes are open to the students who have been in the College as regularly enrolled students throughout the academic year preceding the awards. Unless otherwise particularly specified, the awards are made at or near the close of the spring term of each year. The income from scholarships is payable to the student through the fiscal office of the College for necessary college expenses, at the rate of 40%, 30% and 30% of the total in the fall, winter and spring terms respectively of the succeeding year. Scholarships which are inactive due to the resignation or non-attendance of the holder in the next succeeding year will be regarded as vacated and may be filled in the usual way.

Application should be made for scholarships and prizes upon blanks supplied by the Faculty Committee on Scholarship Awards, but the Committee on Scholarship Awards may on occasion originate nominations.

The awards for the year were as follows:

SCHOLARSHIPS

Wyatt C. Hedrick Scholarship of \$250.00 for the student with the highest scholastic standing for the year awarded to Hal B. Lary of Clovis, New Mexico.

John W. Carpenter Scholarship of \$250.00 for the student with the highest excellence in Textile Engineering awarded to Winifred Wardell of Avery, Texas.

Clifford B. Jones Scholarship of \$250.00 for the student of highest excellence of work in Agriculture awarded to James A. Jackson of Pampa, Texas.

Fort Worth Star-Telegram Scholarship of \$250.00 for the best all-around athlete awarded to J. Clarence Hodges of Tuscola, Texas.

Dr. M. C. Overton Scholarship of \$200.00 for that person who has been of greatest value to the athletic teams in keeping up morale, inculcating principles of fair play and square dealing, and arousing the spirit of honorable fighting on the field, awarded to Leon Fisher of Memphis, Texas.

Faculty Scholarship of \$125.00 for some worthy young man or woman awarded to J. H. Freeland of Lubbock, Texas.

Scholarship of \$100.00 for the best work in English done by any young man in the College awarded to William Lloyd Croslin of Lubbock, Texas.

Scholarship of \$100.00 for the best work in English done by any young woman in the College awarded to Sarah Michie of Lubbock, Texas.

Scholarship of \$100.00 for the best college citizen among the men awarded to Jack Camp of Pecos, Texas.

Scholarship of \$100.00 for the best college citizen among the women awarded to Mary Louise McNeill of Lubbock, Texas.

Scholarship of \$50.00 for the student doing the best work in interpretative reading awarded to Kate Pressley of Lubbock, Texas.

Scholarship of \$50.00 for the student doing the best work in one-act plays awarded to Mrs. Wynona Gilbreath of Lubbock, Texas.

Scholarship of \$50.00 for the student making the best oration awarded to Robert A. Taylor of Stratford, Texas.

Scholarship of \$50.00 for the best debater among the men of the College awarded to Wayne Castleberry of Eastland, Texas.

Scholarship of \$50.00 for the best debater among the women of the College awarded to Lizzie Belle Clements of Lubbock, Texas.

PRIZES

Unabridged dictionary awarded by the Southern Scholarship Society to the freshman making the highest average for the year awarded to Donald R. Boggs of Lubbock, Texas.

Cash award of \$25.00 made by the Pan-Hellenic Society of Lubbock to the freshman student in the School of Home Economics making the highest average in all her work, awarded to Hazel Gruver of Lubbock, Texas.

HONORS

At the close of each term there is issued from the Registrar's office an honor roll which includes the names of all students who during the

term have passed all subjects taken, aggregating not less than fifteen term hours, with an average grade in all courses of at least "B," without having received any failing, conditional, or incomplete grades.

LOAN FUNDS

There are eleven loan funds available for students of Texas Technological College, the total amounting to about \$27,000.00. More than 100 students have already borrowed from these funds, and reports are to the effect that no student has yet failed to repay a loan.

The George T. Morrow Loan Fund.—This loan fund, which is the largest of the funds, is a permanent bequest created by the will of the donor. The interest only of this amount will be used for loans, the capital sum being invested. Some \$800 interest became subject to loan on September 1, 1929. The terms of the will specified that the President, Business Manager, and Registrar of the College should administer the fund.

The Rotary Loan Fund.—The Rotary Club of Lubbock has a student loan fund which amounts to approximately \$6,000.00. This fund is available in small amounts to students who have attended the College a year or more and demonstrated their worthiness and ability.

The Twentieth Century Club Loan Fund.—This fund was originated in 1925, \$200.00 being raised the first year by an assessment of \$5.00 per member. Six students have borrowed from this fund, which now amounts to \$415.90. The interest rate is four per cent and loans are made to either men or women.

The Home Economics Club Loan Fund.—This fund was established during the first year of the College by the Home Economics Club of the College. This organization holds a sale about Thanksgiving time each year. The first sale netted \$87, and \$80 to \$100 has been similarly raised each year. Money is loaned on the recommendation of the Home Economics Club Council and with the approval of Dean Margaret Weeks. This fund is open to Home Economics students who need the money. Four per cent interest is charged. Often loans are made to help students at the time of registration, one girl having been assisted twice in this manner.

The Athenean Club Loan Fund.—This fund was started in 1926 and amounts now to \$250. It is available to any worthy woman student. Five students have participated in this loan with two loans of \$100 each now outstanding.

The A. A. U. W. Loan Fund.—The American Association of University Women last year raised \$100 and are planning to secure another \$100 which will provide a rotating fund to be loaned \$100 each year to some girl graduate of the Lubbock High School who wishes to attend Tech. or some other approved institution.

The Business Women's Loan Fund.—This fund amounts to \$200 with most of this now loaned out. It is available to any unmarried girl at 5 per cent interest. The fund was started the year the school opened and is loaned on the basis of scholarship and character, and upon the recommendation of Dean Mary W. Doak. Four students have participated in this fund.

The Engineering Society Loan Fund.—The Engineering Society is raising from its members a loan fund which will be available to advanced engineering students.

The Agricultural Club Loan Fund.—The Agricultural Club has instituted a small loan fund by donations from its members. Loans from this fund at present are limited to use in emergencies among the agricultural students and may not exceed \$25 or extend longer than four months.

Freshman Cap Loan Fund.—There is a small loan fund available for freshmen made up from a portion of the proceeds of the sale of freshman caps each year.

The R. J. Hall Loan Fund.—Dr. R. J. Hall provided in his will that after all debts and taxes of his estate had been paid, one-tenth of the value of his estate should constitute a revolving trust fund to be loaned to deserving poor boys and girls who may be endeavoring to obtain their education at the Texas Technological College. This estate has not yet been settled, but it is expected that a good sized loan fund will be made available as a result of the benefaction of Dr. Hall.

STUDENT EMPLOYMENT

Students desiring assistance in finding employment for themselves while attending college should file applications with the Student Employment Bureau after they have definitely decided to enter Texas Technological College. It is advisable to present entrance credits to the Registrar for approval before making such application. It will be necessary for every student receiving aid from the Bureau to establish fully the need for such assistance.

The Student Employment Bureau extends every possible aid and guidance to the worthy student, but does not assume responsibility for the success of his efforts. It is not wise for anyone to come to Texas Technological College with the expectation of earning all expenses unless a position has been secured in advance. In those cases where the student must almost wholly pay his way as he goes, it is best to plan on more than four years to complete the required college courses. A good many earn all or a major portion of their expenses, but this is often at a sacrifice of health or creditable class room work, unless a lighter load is carried and hence college authorities may limit a working student. Every student should have some reserve fund to provide for unexpected contingencies. The boy or girl with good health, strong

character, and pleasing personality, combined with industry and reliability, will usually succeed.

Worthy students have been materially aided by the various loan funds and by loans from certain other organizations and from individuals who believe that this kind of investment is worth while. Reference to student scholarships and prizes mentioned on the preceding page is suggested.

Students in Texas Tech. are engaged in almost every imaginable kind of legitimate work. Some of the more common forms of employment are listed below:

FOR YOUNG WOMEN

Office work	Laboratory assistant
House work	Library assistant
Telephone operator	Stenographer
Teaching piano	College cafeteria
Clerking	Care of children
Dining room service	Beauty parlor operator

FOR YOUNG MEN

Electrician	Meat cutter
Experiment station	Collector
Assistant librarian	College dairy
Assistant in Physics	Waiter
Department	Carpenter work
Textile Engineering assistant	Garage work
Chemistry assistant	Printer
Stenographer	Janitor
Office work	Clerk
College cafeteria	Tailor
Moving picture operator	Chauffeur
House work	Railroad employe
Photographer	Newspaper work
Bakery and confectionery	Radio expert
Draftsman	City employe
Musician	Bottling works
Salesman	Soda dispenser
	Telephone exchange

STUDENT ACTIVITIES

RELIGIOUS ORGANIZATIONS

YOUNG MEN'S CHRISTIAN ASSOCIATION

The association was established in 1925 as a voluntary student organization. The rapid growth of the college made it impossible for students to care for the many calls for service. During the summer of 1927 several friends of the College organized a Board of Management and called a full time Executive Secretary. In the spring of 1928 a constitution in keeping with the National Council of Young Men's Christian Association was written by students, and during the summer affiliation was accomplished. This gives a student member an introduction to any association. It means fellowship of the best sort for a young man away from home. Occasional meetings and conferences are held for all the students of the College. Counsel on religious, moral and other problems is available through friendly contact on the initiative of either the student or secretary. The association gives opportunity to study the Bible in non-credit courses. Particular attention is given to freshmen or any other person needing assistance. Correspondence from parents, guardians or friends will be appreciated by the Executive Secretary of the Y. M. C. A.

The Freshman Council of the Y. M. C. A. aims to promote the activities and service of the Young Men's Christian Association among the men of the freshman class.

THE YOUNG WOMEN'S CHRISTIAN ASSOCIATION

This organization was established early in the history of the College. The rapid growth of the College has made it impossible for volunteer student workers to carry on the program. A readjustment of the Association will make it possible for every interested woman student to become a member. It is not necessary to be a member to have available the resources of the organization. Therefore any parent, friend, or guardian wishing to get in touch with the Association about a student may do so by writing the President of the Y. W. C. A.

Occasional devotional and other meetings are held. Conferences of great value to students are held from time to time over the state and region. These are open to any young woman recommended by the Cabinet. A program of social service and practical application of Christianity is the aim of the Association.

The Freshman Council of the Y. W. C. A. aims to promote the activities and service of the Young Women's Christian Association among the women of the freshman class.

OTHER RELIGIOUS WORK

The local churches of Lubbock co-operate with the College in furnishing Christian training for students. Bible classes have been organized; social life of the best type is being fostered; and ministers and laymen work with the College in its attempt to maintain a satisfactory environment for the students. Courses in Bible and other religious education are given in the College for college credit.

STUDENT PUBLICATIONS

There are at present two publications that represent the student life of the College: *The Toreador* and *La Ventana*. *The Toreador* is the weekly College paper, which represents the student life in its everyday activities on the College campus. *La Ventana* is the College annual, which contains a summary of the various activities and interests of the College for the entire year.

MUSICAL ORGANIZATIONS

THE GLEE CLUBS

The College has a Glee Club for women, meeting Mondays at 4 p. m. A similar organization for men meets on Tuesdays. These clubs merge their forces on Wednesday evenings at 7:30, making the Choral Club. The Glee Clubs prepare their individual programs, giving recitals in the surrounding territory.

THE CHORAL CLUB

The Choral Club aims to give operettas and cantatas, generally sponsoring one program each term.

THE COLLEGE BAND

The College Band, an organization of approximately eighty members, which meets Mondays and Thursdays at 7:30, gives programs throughout the regular college year and plays for athletic events.

THE COLLEGE ORCHESTRA

The College Orchestra meets Wednesday evenings.

ARTIST COURSE

The attractions in this course are presented as part of the education of the student. Artists and lecturers of international fame make up the program. The nominal fee of one dollar admits any student to the entire series. The program is as follows for the current year: Burton Holmes, traveler and lecturer, presenting "The Glories and Gaieties of Paris"; Dr. Frederick Warde, Shakespearean scholar, actor and lecturer; Tony Sarg's Marionettes in "Rip Van Winkle"; Efrem Zimbalist, violinist, in recital; Arthur Pillsbury, scientist and photographer, with X-ray motion pictures of the unfolding of life.

ORATORY AND DEBATE

The ability to speak effectively is an extremely valuable asset, and the man of affairs who wishes to influence and persuade cannot achieve the fullest measure of success without this ability. The courses offered in oratory and debate include those from simplest speeches to formal addresses. The classroom is a laboratory where much practical work is done. Both informal and formal debates are studied. Inter-collegiate debates have been arranged with some of the leading colleges in the State and abroad.

Students interested in debate have an opportunity for practice in the Debate Club. The Pre-Law Club also furnishes additional opportunity.

Five \$50 scholarships are offered in the Department of Speech. In order to foster more interest in this important part of the college life, five contests are conducted. These contests are: Two debates, one for young men and one for young women; interpretative reading for young women; dramatics for both men and women; and oratory for young men. The winner of each contest is awarded a \$50 scholarship. While the contests are not limited to the students in the Speech Department, it is urged that anyone desiring to participate in these events should be enrolled for courses in the Department.

CLUBS AND SOCIETIES

The College authorities have followed a policy of encouraging student activities which seem to offer a field for individual self-development. All clubs and societies are required to have faculty sponsors, and all treasurers of student organizations are required to follow certain regulations, and to deposit funds with the College Auditor. By a ruling of the Board of Directors, Greek letter social fraternities are not permitted in the College.

Among the more prominent organizations on the campus are the following:

LITERARY AND SOCIAL CLUBS

The Alpha Psi Omega, the Sock and Buskin Club, and the Thespian Club are active in connection with dramatic amateur plays and interpretative work. The S. P. Q. R. and the Capa y Espade are literary and social clubs which aim to promote interest in foreign language and the classics. The Association of Women Students, Las Leales, and the Forum have the interest of the women students as their object. The Women's Athletic Association, which is open to women students, sponsors the athletic activities among the women. The Chamber of Commerce is an organization among young men for the good of the institution.

DEPARTMENTAL AND SCIENTIFIC CLUBS

The Agricultural Club, the Architectural Society, the Bobbins Club, the Debate Club, the Engineering Society, the Geological Society, the Home Economics Club, the Math Club, the Pi Gamma Mu, the Southern Scholarship Society, the Pre-Law Club, and the Pre-Med Club, are more especially honor, school or departmental organizations which have to do with work in the lines indicated by their names. These organizations are active and serve a wide field.

THE STUDENT COUNCIL

The Student Council is the official body of the students chosen to represent them in matters of student government. It is made up of representatives of the various schools and classes.

SCHOOL OF LIBERAL ARTS

JAMES M. GORDON, DEAN

The School of Liberal Arts aims to afford its students a liberal education in the humanities and sciences. It offers opportunity also to students who wish to prepare for the schools of law, medicine and business administration. The work of the freshman and sophomore years can be so shaped as to include definite requirements for admission to any of the schools above named. Students expecting to enter a profession should consult with the Dean at the end of their freshman year on the best way of combining their college and professional work.

REQUIREMENTS FOR GRADUATION

Entrance Requirements

- | | |
|---|---------------------------|
| 1. English | 3 units |
| 2. A foreign language | 2 units |
| 3. Mathematics. | |
| Plane Geometry 1 | |
| Algebra 1 | 2 units |
| 4. Civics | $\frac{1}{2}$ or 1 unit |
| 5. Two from either | |
| Group (a): History, Civics, Sociology; or | |
| Group (b): Botany, Zoology, Chemistry, Physics, | |
| Geology, General Biology, General Sci- | |
| ence, Physiography, etc. | 2 units |
| 6. From the group not chosen under (5) | 1 unit |
| 7. From any accredited high school subject, not more than | |
| four of which may be vocational subjects | 4 or $4\frac{1}{2}$ units |
| Total | 15 units |

A list of the subjects and units accepted for admission will be found on page 35.

College Courses Required

In the School of Liberal Arts only one undergraduate degree is conferred, the Bachelor of Arts. In order to receive this degree, the candidate must have met the entrance requirements, must have been regularly enrolled in this College, and must have completed the following courses:

- | | |
|-----------------------------------|---------------|
| 1. English 131-2-3; 231-2-3 | 18 Term Hours |
| 2. Foreign Language | 18 Term Hours |

If three or four units have been offered in high school and the same language is continued in college, nine term hours will meet the requirements.

- *3. Social Science: History, government, economics, sociology ----- 18 Term Hours
 If three units have been offered in high school nine term hours.
 (Government must be offered as one of the social sciences: 131-2-3, nine hours if taken in either the freshman or in the sophomore year; 331-2, six hours if taken either in the junior or in the senior year.)
4. Mathematics ----- 9 Term Hours
 If three units have been offered in high school, six term hours.
- *5. Science (must be laboratory science) two years' work, a minimum of ----- 18 Term Hours
 If two units (three if general or introductory science is included) have been offered in high school, a minimum of nine term hours.
6. Psychology 230 or 232, or Philosophy 231 ---- 3 Term Hours
7. Two years of Physical Education.
8. Additional courses to make the sum total of 180 term hours exclusive of physical or military training, two years of which must be taken without college credit.
9. As a part of the requirement of 8 there must be a major sequence consisting of at least 36 term hours in the major subject in addition to the required work outlined in the preceding paragraphs. In the case of subjects offered as a major in which no courses are required for a degree, a minimum of 45 hours must be completed. In counting the number of hours for major subjects, no part of a continuous course will be counted until the entire course has been completed. At the option of the department head, no grade lower than C may be counted in the minimum of term hours required in the major. The proper sequence and gradation of courses taken to satisfy the major requirements are to be left to the department in which the major is taken, subject to the approval of the Advanced Standing Committee.
10. A minimum residence of one year at the Texas Technological College, and if only one year is given to this College it must be the senior year.

*If two years are required they may not both be taken in the same subject.

Courses for Freshman Year

For all Liberal Arts students except pre-medical, pre-law, and business administration students:

1. English.
2. Any three of the following:
Foreign language
Mathematics
Science
Government or history
3. A fifth subject in 2 or elective.
4. Orientation. Required of all freshmen.

Courses For Sophomore Year

1. Any of the required courses not already completed.
2. Courses in the degree group which the student may elect.

The following degree groups are suggested:

English
Foreign language
Mathematics
Science
Social science

Courses for Junior and Senior Years

Continue the degree group selected, which must include a major of 45 to 54 term hours in one subject. The total number of term hours for graduation is one hundred eighty, exclusive of six term hours of physical education or military training.

Transfers From Other Colleges

The minimum residence requirements for graduation for students who are transfers from other colleges is one year or three terms of twelve weeks each. Further information about credit allowed for courses taken in other colleges may be found on pages 34 and 38.

COURSES LEADING TO LAW OR TO MEDICINE

Although Texas Technological College does not have a school of law or of medicine, it offers college courses preparatory to admission to regular schools of law and of medicine.

Studies Preparatory to Law

The minimum requirements for admission to any standard law school are 15 entrance units, as prescribed by the School of Liberal Arts, and two full years (90 term hours) of college work.

The following course of study is recommended for students who contemplate the study of law:

Freshman year: English, Government, English History, Mathematics, a natural science.

Sophomore year: English, Economics, American History, Government, Accounting.

Junior year: If the student desires to take a third year of work preparatory to the study of law, which is always advisable, the work should be selected mainly from the social science group, and should include psychology or philosophy.

Bachelor of Arts Degree for Pre-Law Students

Pre-Law students may obtain the Bachelor of Arts degree from the Texas Technological College upon the completion of three years of work in the Liberal Arts College of this school and three years of work in a standard law school.

The three years' work in the Texas Technological College must satisfy all graduation requirements with the exception of the major subject.

Studies Preparatory to Medicine

The minimum requirements for admission to any standard medical school are 15 entrance units, as prescribed by the School of Liberal Arts, and a minimum of two full years (90 term hours) of college work. The following course of study is recommended for students who plan to study medicine:

Freshman year: English, German or French, Government, Chemistry, and Zoology.

Sophomore year: English, the foreign language begun in the freshman year, Organic Chemistry, General Physics, and Vertebrate Anatomy.

Junior year: Analytical Chemistry, Animal Histology and Embryology, the language not studied in the freshman and sophomore years,* Philosophy or Psychology, and 15 term hours of electives.

Senior year: One or two additional advanced courses in Chemistry and Zoology, the language begun in the junior year, and electives sufficient to make a total of 180 term hours for the four years.

Bachelor of Arts Degree for Pre-Medical Students

Pre-Medical students may obtain the degree of Bachelor of Arts from Texas Technological College by three years of work in Liberal

*A student may, after consultation with the professor in charge of pre-medical work, substitute Spanish for the second foreign language period. This is done, however, at the student's own risk, since most medical colleges will not accept Spanish for entrance.

Arts and two years in a Class A medical college upon satisfying the following conditions:

1. A minimum of two years of resident work in Texas Technological College, including the junior year.
2. Satisfactory completion of the prescribed and elective courses listed in the Pre-Medical curriculum for the freshman, sophomore, and junior years.
3. Submission of the properly approved credentials from a Class A medical college to the effect that the applicant has completed satisfactorily the first two years of work leading to the degree of Doctor of Medicine.
4. Two years of physical training or military science.
5. The grade point requirement, see page 43.

REQUIREMENTS FOR THE BACHELOR OF ARTS IN BUSINESS ADMINISTRATION

Business Administration courses are given in the School of Liberal Arts. The requirements are uniform except in the junior and senior years. There are the following requirements:

Freshman Year

	Term	Hours
English 131-2-3	9	
Government 131-2-3	9	
A natural science	9 or 12	
Mathematics 137-8-9	9	
A foreign language	9	
Physical Training		

Sophomore Year

English 231-2-3	9
Economics 213-2-3	9
Introduction to Accounting 234-5-6	9
A foreign language	9
History 231-2-3	9
Physical Training	

Junior and Senior Years

Economics 334-5-6	9
Mathematics 337-8-9	9
Psychology or Philosophy	3

Economics 334-5-6 are required courses, but cannot be credited on a major in Economics and Business Administration to complete the major requirements of 45 hours. Twenty-seven hours besides Economics 334-5-6 must be taken in the Junior and Senior years from

the courses offered in Economics and Business Administration. The remaining required hours for graduation may be approved electives with special recommendation for certain courses in the departments of Government, Agricultural Economics, and Mathematics.

THE MASTER OF ARTS DEGREE

During the College year of 1927-28, plans were perfected whereby the Master of Arts degree would be given in the School of Liberal Arts to students meeting the requirements for that degree. Work leading to the Master's Degree is offered in the following Departments:

Economics and Business Administration.
Education and Psychology.
English.
Geology.
Government.
History.
Mathematics.
Philosophy and Sociology.

The requirements for the degree are:

Admission to Candidacy: To be admitted to candidacy for the Master of Arts degree, the student must be a graduate of Texas Technological College, or of another institution whose degree is accepted by a recognized association of colleges and which was so recognized when the degree was conferred. All other requirements as to admission are to be left to the department in which the student's graduate work is to be done. Application for the degree must be submitted not later than three months after enrollment.

Amount of Work: The minimum amount of work beyond the bachelor's degree required for the Master of Arts degree is 45 term hours. A maximum of 9 term hours of graduate work may be accepted from another institution of equal rank. A maximum of 15 term hours of graduate work may be carried in any one term.

Grades: No course may be credited if the grade is lower than B.

Major and Minor Subjects: The candidates for the Master of Arts degree shall take at least two courses, or 18 term hours, in the minor subject, and in addition shall complete a thesis in the major subject which may count as much as 9 term hours. The remainder of the required 45 hours may be taken in the major subject. The candidate may elect to offer a minor of 9 term hours in one subject, related to the major subject. Minor subjects must be approved by the department in which the major work is done.

Thesis: A thesis dealing with some phase of the major subject must be approved by the head of the department in which the work is given and by the Graduate Committee. A maximum of 9 term hours may be allowed for a thesis.

Residence: A minimum of three terms of residence is required. Teachers in service, doing part time work in the College, or doing class extension work under the direction of the College, may offer a maximum of 15 term hours of such work. In no case will the degree of Master of Arts be conferred for less than two quarters of residence work with full schedule.

Examinations: Written examinations are to be entirely in charge of the departments concerned. In addition there must be an oral examination which shall be conducted by the major department, but at which the minor department or departments shall be present; also representatives of the Graduate Committee shall be present and take part.

Foreign Language: A reading knowledge of at least one foreign language is required. Any student who presents two full college courses of 18 term hours of a foreign language will be presumed to have a reading knowledge of that language. A student unable to offer such college courses will be required to furnish a certificate from the head of the department of the language offered, stating that he has a reading knowledge of such foreign language.

Statistics: When the student is pursuing research that requires the use of statistical method as a tool for such research, he may, upon approval of the Dean and the Graduate Committee, be allowed to substitute 9 hours of advanced work in statistics for the foreign language requirement.

COURSES IN BIBLICAL LITERATURE

Miss DeBardeleben

Courses in Biblical History and Literature are offered in the Department of Religion by Miss Mary DeBardeleben, under the auspices of the Woman's Department of the Board of Missions, M. E. Church, South, headquarters at Nashville, Tennessee.

A maximum of 18 term hours credit is allowed these courses in the School of Liberal Arts. The classes are held in the rooms of the College and work is under the supervision of the School of Liberal Arts, subject to all the regulations that govern other courses of the school.

131-2-3. *Biblical Introduction.*

A study of the composition, authorship, and canonicity of the books of the Bible. The Old Testament, fall and winter terms. The New Testament, spring term.

211-2-3. *Apostolic Age.*

A course based on a study of the Acts of the Apostles, and three or four of the great epistles of St. Paul.

231-2-3. *The Life and Teachings of Jesus.*

A study of the Gospel sources, of the social, political and religious background of the life of Jesus, followed by an intensive study of His teachings with special emphasis on their application to modern problems.

331-2-3. *Old Testament History.*

A course that deals with history of the Hebrew people from its earliest beginnings down to the Christian era.

(For credit in the Department of History, see the Head of that Department.)

334-5-6. *Spiritual Values in Biblical Literature.*

A study of the literature of the Bible in its historical development, with special emphasis on its religious teachings and spiritual significance, its changing conceptions of God and developing religious ideals.

DEPARTMENT OF BIOLOGY

Professors Studhalter, Reed, Associate Professors Landwer, *League, Bush. Instructors Studhalter, Sealey.

Liberal Arts students desiring to fulfill a part of the science requirements for the B. A. degree, may register for Botany 131-2-3, or Zoology 131-2-3, or Zoology 134-5-6.

Prospective teachers of the natural sciences in high schools should obtain a good grounding in human physiology, botany, and zoology, and should also register for Biology 211-2-3. Prospective teachers in the grades derive much benefit from Zoology 134-5-6, The Human Body.

Students who wish to major in biology should use Botany 131-2-3 and Zoology 131-2-3 as the foundation courses in this department. The subsequent courses will depend upon the major interest of the student.

BOTANY

131-2-3. *General Botany.* 2 lecture hours, 3 laboratory hours.

Botany and its subdivisions; a macroscopic survey of the seed plants; the cellular structure and physiology of plants; and a review of the plant groups from the algae to the flowering plants.

Fee: \$4.00; deposit: \$5.00.

230. *Plant Pathology.* 2 lecture hours, 3 laboratory hours.

Prerequisite: Botany 131-2-3.

*Absent on leave, 1929-30.

Lectures, assigned readings, reports, laboratory work, and field work on the more common fungous and bacterial diseases of plants.

Fee: \$1.50; deposit, \$5.00.

231-2. *Plant Morphology*. 1 lecture hour, 6 laboratory hours.

Prerequisite: Botany 131-2-3.

The morphology of the algae, fungi, bryophytes, pteridophytes and spermatophytes, with emphasis upon the latter.

Fee: \$3.00 deposit, \$5.00.

233. *Taxonomy of the Spermatophytes*. 1 lecture hour, 6 laboratory or field hours.

Prerequisite: Botany 131-2-3.

Classification of the seed-bearing plants, with emphasis upon the local flora.

Fee: \$1.50; deposit: \$5.00.

239. *Plant Anatomy*. 2 lecture hours, 3 laboratory hours.

Prerequisite: Botany 131-2-3.

A brief course in the anatomy of the seed plants, together with the related physiological processes, for students of agriculture.

Fee: \$1.50; deposit, \$5.00.

331-2-3. *Plant Physiology*. 1 lecture hour, 6 laboratory hours.

Prerequisite: 18 term hours in botany; prerequisite or parallel: 9 term hours in chemistry.

The more important physiological processes in plants, including absorption, water transport, transpiration, nutrition, photosynthesis, nitrogen relations, growth, responses to stimuli, and reproduction.

Fee: \$4.00; deposit, \$5.00.

431-2-3. *Histology and Cytology of Plants*. 1 lecture hour, 6 laboratory hours.

Prerequisite or parallel: Botany 331-2-3.

Plant tissues and cells; the preparation and study of permanently mounted plant tissues.

Fee: \$4.00; deposit: \$5.00.

434-5-6. *Taxonomy of the Vascular Plants*. 1 lecture hour, 6 laboratory or field hours.

Prerequisite: Botany 233; prerequisite or parallel: Botany 331-2-3.

The classification and relationships of the ferns, gymnosperms, and angiosperms.

Fee: \$4.00; deposit: \$5.00.

ZOOLOGY

131-2-3. *General Zoology*. 2 lecture hours, 4 laboratory hours.

The natural history, morphology, and physiology of the vertebrates as represented by the frog; the more important invertebrate phyla of the animal kingdom, and the more important general principles of zoology, such as reproduction, adaptation, evolution, and genetics.

Fee: \$4.00; deposit: \$5.00.

134-5-6. *The Human Body*. 2 lecture hours, 3 laboratory hours.

A study of the gross anatomy of the body, including the nervous system, the skeleton, the other organ systems, and the microscopic study of the tissues; the various physiological processes and the fundamental principles of hygiene and sanitation.

Fee: \$4.00; deposit: \$5.00.

231-2-3 *Invertebrate Zoology*. 2 lecture hours, 3 laboratory hours.
Prerequisite: 9 terms in zoology.

A study of the more important invertebrates.

Fee: \$4.00; deposit: \$5.00.

234-5. *Principles of Zoology*. 2 lecture hours, 3 laboratory hours.

Prerequisite: Botany 131-2-3; primarily for agriculture students; not open to students who have completed Zoology 131-2-3; presupposes a knowledge of the structure and functions of the cell and tissues, and of a certain amount of laboratory technique.

A study of some typical animals and of some fundamental zoological principles.

Fee: \$3.00; deposit: \$5.00.

236. *Economic Entomology*. 2 class hours, 3 laboratory or field hours.
Prerequisite: Zoology 235 or Zoology 131-2-3.

Classroom, laboratory, and field study of the more important insect pests of plants.

Fee: \$1.50; deposit: \$5.00.

237-8-9. *Vertebrate Anatomy*. 2 lecture hours, 4 laboratory hours.
Prerequisite: 9 term hours in zoology.

The morphology, physiology, adaptations, and embryological origins of the various systems of organs in the vertebrates. Laboratory study of the anatomy of representative forms.

Fee: \$4.00; deposit: \$5.00.

331-2-3. *Animal Histology and Embryology*. 1 lecture hour, 6 laboratory hours.
Prerequisite: 18 term hours in zoology.

Histology; the preparation and study of permanently mounted sections of animal tissues; the embryology of the higher animals, with emphasis on the embryology of the chick and the pig.

Fee: \$4.00; deposit: \$5.00.

431-2-3. *Zoological Problems.*

Prerequisite: Zoology 331-2-3, and any other courses thought necessary for individual students. Readings, conferences, and laboratory work.

Fee: \$4.00; deposit, \$5.00.

BACTERIOLOGY

231. *Bacteriology for Agriculture Students.* 2 lecture hours, 3 laboratory hours.

Prerequisite: 9 term hours in botany or zoology.

The morphology and physiology of bacteria and of bacteriological technique, with emphasis on the bacteria of agricultural importance.

Fee: \$1.50; deposit: \$5.00.

232-3. *Household Bacteriology.* 2 lecture hours, 3 laboratory hours.

Prerequisite: 9 term hours in biology; primarily for Home Economics students.

The morphology and physiology of bacteria, yeasts, and molds, with emphasis on the home and its surroundings.

Fee: \$3.00; deposit: \$5.00.

331-2-3. *General Bacteriology.* 2 lecture hours, 3 laboratory hours.

Prerequisite: 18 term hours in botany or zoology.

A study of the structure and functions of the various types of bacteria, water purification, sewage disposal, some of the disease-producing organisms, and the problems of immunity. Primarily for pre-medical and other Liberal Arts students, and for senior Civil Engineers.

Fee: \$4.00; deposit: \$5.00.

330. *Soil Bacteriology.* 2 lecture hours, 3 laboratory hours.

Prerequisite: 18 term hours in biology, including 3 term hours in bacteriology.

The micro-organisms of the soil.

Fee: \$1.50; deposit: \$5.00.

BIOLOGY

211-2-3. *The Teaching of Biology.*

Prerequisite: 18 term hours in the Department of Biology.

Lectures, assigned readings, reports, and laboratory problems. A study of the laboratory and its equipment, biological illustration, collections, exhibits, herbaria, types of biology courses, text-books, references,

biological institutions and workers, and various other educational aspects of biology. May be counted as Education or as Biology.

231. *Heredity*. 3 lecture hours.

Prerequisite: 9 term hours in botany or zoology.

The principles of heredity in plants and animals, together with some work on inheritance in man.

232. *Evolution*. 3 lecture hours.

Prerequisite: 9 term hours in botany or zoology.

Organic evolution with illustrations from both the animal and the plant kingdom.

411-2-3. *Biology in Seminar*. 1 class hour.

Prerequisite: Senior standing in biology; students with junior standing admitted only with the consent of the head of the department.

Reports on assigned topics, based chiefly on recent biological literature, memoirs, and researches.

The course may be repeated with full credit.

DEPARTMENT OF CHEMISTRY

Professors Read, Ray, Craig. Assistant Professor Slagle. Instructors Marshall, Read. Graduate Assistants Galbraith, Cross.

One or the other of Chemistry 141-2-3 and Chemistry 144-5-6 is required of all Engineering freshmen (except that in the Geological Engineering course this subject is deferred until the sophomore year), of all Home Economics and Agricultural sophomores, and of all pre-medical students, as well as meeting the requirement of one science elective in the School of Liberal Arts. Wherever Chemistry 141-2-3 is referred to in the catalogue, it is understood that Chemistry 144-5-6 may be substituted by students qualified for the latter course.

113. *Elementary Qualitative Analysis*. 3 laboratory hours.

To be taken parallel with the last term of Elementary General Chemistry by pre-medical students who do not take the full course in Chemistry 237-8-9—Analytical Chemistry. This course may be taken by other students with special permission of the head of the department.

Spring term.

Fee: \$1.50; no fee or deposit when the student is registered in Chemistry 143 or 146.

141-2-3. *Elementary General Chemistry*. 1 lecture hour, 2 class hours, 3 laboratory hours.

This course is intended for students who have not had chemistry in high school or whose high school training is inadequate. It deals with the fundamental principles of chemistry in an elementary way, and includes considerable descriptive material and illustrative experiments in laboratory and lecture rooms.

Fee: \$4.00; deposit: \$4.00.

144-5-6. *Elementary General Chemistry*. 1 lecture hour, 2 class hours, 3 laboratory hours.

Students who have completed recently and satisfactorily a standard high school course in chemistry will take this course instead of Chemistry 141-2-3. The credit for the two courses and the subject matter as well are essentially the same, but the method of presentation and order of subjects is different because of the previous training of the students.

Fee: \$4.00; deposit: \$4.00.

230. *The Teaching of Chemistry*.

Prerequisite: Chemistry 234-5-6 and 9 continuous hours in Education. May be taken parallel with Chemistry 234-5-6.

Assigned reading in chemical journals, particularly the *Journal of Chemical Education*. Conferences and seminar reports dealing with methods of teaching elementary chemistry. The construction and equipment of laboratories, and the selection and use of laboratory and demonstration equipment. The simple mathematics of elementary chemistry.

234-5-6. *The Principles of Chemistry*.

Prerequisite: Chemistry 141-2-3 or Chemistry 144-5-6.

A consideration of the theories and principles of chemistry. Special attention to modern advances in chemical theory. Intended as a foundation for the later course in Physical Chemistry. Recommended especially as a training course for those who wish to teach this subject in high schools.

237-8-9. *Analytical Chemistry*. 9 laboratory hours.

Prerequisite: Chemistry 141-2-3 or Chemistry 144-5-6. It is advisable that Chemistry 234-5-6 be taken either previous to or parallel with this course.

Volumetric analysis, gravimetric analysis, completing the basic training in quantitative analysis. Qualitative analysis.

Required of all students majoring in chemistry, and recommended for those working in other fields of science who desire to secure a thorough foundation in chemistry.

Fee: \$4.00; deposit: \$6.00.

310-11. *Chemical Engineering Calculations.*

Prerequisite: Chemistry 234-5-6.

The solution of problems pertaining to fuels and combustion, sulphur, lime, cement, refractories, and heavy chemicals.

Required of students majoring in Chemical Engineering, and open to any others interested in chemical industries.

Fall and Winter terms.

312-3-4. *Advanced Industrial Chemistry.*

Required of students who take the Chemical Option of the Mechanical Engineering course. Open to advanced students in chemistry. The work includes reading in chemical journals and reference texts, conferences, and the preparation of reports.

321-2-3. *Industrial Chemistry.*

Prerequisite: Chemistry 141-2-3 or Chemistry 144-5-6.

A general course dealing with the applications of chemistry to modern industry. The course includes a study of the work of chemists and chemical engineers, sources of information, unit operations, methods of calculation, economics and business principles of chemical industry, and the methods of manufacture and the uses of important chemical products.

333. *Organic Preparations.* 9 laboratory hours.

Prerequisite: Chemistry 343-4-5. May be taken parallel with 345.

A course in the preparation of organic substances by synthesis, with special attention to methods of procedure and yields.

Fee: \$4.00; deposit: \$6.00; no fee or deposit when the student is registered in Chemistry 345.

339. *Power Plant Chemistry.* 2 lecture hours, 3 laboratory hours.

Prerequisite: Chemistry 141-2-3, or Chemistry 144-5-6.

A course dealing with boiler feed water, fuel, and lubricants, and the practical tests of these materials for use in the power plant. Lectures, demonstrations, problems and tests.

Required of Electrical and Mechanical Engineers. Open to other students with special permission from the head of the department.

Spring term.

Fee: \$4.00; deposit: \$6.00.

343-4-5. *Organic Chemistry.* 3 lecture hours, 3 laboratory hours.

Prerequisite: Chemistry 141-2-3, or Chemistry 144-5-6.

A study of the compounds of carbon, providing a thorough founda-

tion for other courses in organic, physiological, and industrial chemistry.

This course meets pre-medical requirements. It is required of Agricultural students majoring in the Department of Animal Husbandry and in the Department of Dairy Manufactures.

Fee: \$4.00; deposit: \$6.00.

431. *Technical Analysis*. 9 laboratory hours.

Prerequisite: Chemistry 237-8-9 and one of the courses in Organic Chemistry.

Problems selected from food analysis, the testing of stock feed, fertilizer, animal and vegetable oils, petroleum products, soil analysis, water analysis, and fuel analysis, using standard commercial methods of analysis.

Fee: \$4.00; deposit: \$6.00.

434-5-6. *Principles of Chemical Engineering*.

Prerequisites: Chemistry 441-2-3 and those engineering subjects included in the second and third years of the Mechanical Engineering (Chemical Engineering Option) course.

This course is taught without laboratory and is regarded as preparatory toward courses in Chemical Engineering in other institutions which make a specialty of this work. It deals with the flow of heat, the flow of materials, and the principles of the basic unit operations of chemical engineering.

441-2-3. *Physical Chemistry*. 3 lecture hours, 3 laboratory hours.

Prerequisite: Chemistry 234-5-6, Chemistry 237-8-9, and Chemistry 343-4-5, 6 term hours in Calculus, 15 term hours in Physics. Chemistry 343-4-5 may be taken parallel with this course, but the other prerequisites must have been completed.

Modern theories of chemistry and the methods employed by chemists in making physical tests and measurements.

Fee: \$4.00; deposit: \$6.00.

Graduate Courses

Courses numbered 333, 431 and 441-2-3 may be taken for graduate credit.

DEPARTMENT OF ECONOMICS AND BUSINESS ADMINISTRATION

Professor Condray. Associate Professor Nissley. Assistant Professor Corry. Graduate Assistant Wolffarth.

The Department of Economics and Business Administration offers an opportunity for students to do academic work in Economics and Business Administration as a major for the degree of Bachelor of Arts. Students who major in this Department must fulfill the special requirements of the Department for this degree. Where electives may be chosen, the Department of Economics and Business Administration specifies the electives to be taken.

Specialization in the major takes place in the third and fourth years; the first two years are devoted to required courses and fundamentals. Liberal Arts students may major either in Economics or in Business Administration.

Basic Courses

231-2-3. Introduction to Economics.

Prerequisite: Sophomore standing.

Historical, descriptive, and analytical treatment of modern economic society. Forms of business organizations, prices, money, banking, railway problems, taxation, interest, wages, labor problems and proposed economic reforms.

234-5-6. Introduction to Accounting.

Prerequisite: Sophomore standing.

Introductory to bookkeeping and accounting, covering principles of accounting, financial statements and systems for the sole proprietorship and for partnership.

331-2-3. Introduction to Business Administration.

Prerequisite: Economics 231-2-3.

Designed for students who are not majoring in Commerce. First two quarters given to a study of the institutions and functions of business; plant location, personnel, marketing, finance, studied in detail, and interdependence of these various phases for successful operation shown. Third quarter deals with general business policies; policies and methods of a few well organized companies studied.

In brief this course is designed to meet the needs of those wishing a general knowledge of business; it is a survey course.

334-5-6. Commercial Law.

Prerequisite: Government 131-2-3 and Economics 231-2-3.

Although this course aims to familiarize the student with the ordinary rules of law, it is not designed to give him sufficient knowledge

to decide all legal questions himself; rather it is designed to arm the student with the rules concerning legal instruments, torts and contracts and to enable him to tell when professional legal advice is necessary. Required for Business Administration students.

Production Division

3321-22-23. *Industrial Management.*

Prerequisite: Economics 231-2-3.

A study of factory management, heating, lighting, personnel, production methods and policies, and wage-payment plans, from an administrative point of view.

4210-11-12. *Personnel Administration.*

Prerequisite: Economics 3321-22-23.

The training of employes; wage systems, workmen's compensation act, collective bargaining, and trade agreements.

4310-11-12. *Trade Unionism.*

Prerequisite: Economics 3321-22-23.

The history of the trades union movement; the development of the American Federation of Labor and its influence.

Marketing Division

3310-11-12. *Marketing Administration.*

Prerequisite: Economics 231-2-3.

Marketing structures and agencies; practices and tendencies in the distribution of raw materials and manufactured products. Methods of sale, psychology of the buying public, and marketing strategy.

3340-41-42. *Business Communication.* 2 class hours, 5 laboratory hours.

Prerequisite: Economics 231-2-3.

Business letter writing, inter-departmental communication, reports, forms, records. Office procedure and office equipment. Shorthand, typewriting, and instruction in the use of calculating machines, dictaphone.

No credit is given for the laboratory work, but it is required of all students who have not had its equivalent. Students may take the laboratory course without the regular classroom work.

Fee: \$4.00 for the year. Typewriter-rental: \$4.00 a term.

421-2-3. *Business Forecasting.*

Prerequisite: Economics 3310-11-12 and 337-8-9.

A study of the methods of business forecasting employed by such agencies as Babson, Brookmire, Harvard, and others.

431. *Advertising Principles and Practice.*

Prerequisite: Economics 3310-11-12.

432. *Salesmanship.*

Prerequisite: Economics 3310-11-12.

433-4—*Transportation.*

Prerequisite: Economics 3310-11-12.

435. *Retail Selling and Store Management.*

Prerequisite: Economics 3310-11-12.

*Finance Division*337-8-9. *Administration of Finance.*

Prerequisite: Economics 231-2-3.

Principles and problems of financing business enterprises; problems of industrial concerns.

3313-14-15. *Money, Banking and Business Cycles.*

Prerequisite: Economics 231-2-3.

History and principles of money and banking. Existing monetary and banking systems. Special attention to Federal Reserve System. Theories of business cycles.

430. *Public Finance.*

Prerequisite: Economics 337-8-9.

Municipal, State and Federal Finance. Principles and practice of taxation. Budgetary control and governmental expenditures.

437. *Advanced Banking Practice.*

Prerequisite: Economics 337-8-9.

Bank administration and organization; Departmental organization; relation of different departments; accounting methods and accounting machinery.

438. *Investments.*

Prerequisite: Economics 337-8-9.

Principles and forms of investments. Analysis of various types of investment securities and markets for investment securities.

439. *Corporation finance.*

Prerequisite: Economics 337-8-9.

Financial problems connected with promotion, underwriting and sale of corporation securities. Management, expansion and reorganization of corporations.

4330-31-32. *Insurance.*

Prerequisite: Economics 337-8-9.

Analysis of fire, life, casualty and marine insurance. Basis of rate making. Types of companies and policies.

4350-51. *Risk and Risk-Bearing.*

Prerequisite: Economics 337-8-9.

A study of the various risks existing in modern economic society and methods of dealing with these risks.

Accounting Division

3316-17-18. *Corporation Accounting and Budgetary Control.*

Prerequisite: Economics 234-5-6.

Accounts peculiar to the corporate form of organization, method of handling fixed assets, intangible assets, analysis of financial statements and methods of effecting control through accounting records and reports.

Fee: \$4.00.

4213-14-15. *Cost Accounting.*

Prerequisite: 3316-17-18.

Records and reports for the cost department. Methods of allocation of overhead costs. Records and principles for handling material, labor and indirect expenses.

4332-33-34. *Auditing and Advanced Problems.*

Prerequisite: Economics 3316-17-18.

Auditing procedure, classifications of audits and investigations. Methods of verification of financial statements. Advanced auditing and accounting problems and principles.

4370. *Income Tax Procedure.*

Prerequisite: Economics 3316-17-18.

The income tax law in relation to individuals, partnerships, and corporations subject to the tax. Treasury Department rulings and forms used in making tax returns.

Graduate Courses

Courses numbered 421-2-3, 4210-11-12, 4213-14-15, 430, 431, 432, 433, 435, 437, 438, 439, 4310-11-12, 4330-31, 4332-33-34, 4350-51, 4370.

DEPARTMENT OF EDUCATION AND PSYCHOLOGY

Professors Evans, Garlin. Associate Professors Clement, Dysart, Shaver.

Courses in Education are designed for students who wish to teach for a few years or who plan to make teaching their life work. A further aim is to treat Education from the standpoint of technology in the same manner as Agriculture, Engineering, Chemistry, or Business Administration.

Courses in Psychology are designed to meet the requirement for the degree of Bachelor of Arts, to give further acquaintance with the

method and technique of psychology, and to orient the student in some of the applications of psychology, such as educational psychology, business psychology, and social psychology.

Teachers' Certificates valid in Texas and other states may be secured for college courses taken in the Texas Technological College. Students desiring to teach in other states should consult the head of the department concerning certificate requirements in these states.

REGULATIONS GOVERNING STATE TEACHERS' CERTIFICATES

Four-Year Elementary or Two-Year High School Certificate

On completion of five college courses in a first-class college, including 108 hours (9 term hours) in English, and 108 hours (9 term hours) in elementary education, an elementary certificate valid for four years, or a high school certificate valid for two years, may be issued. Any course in education may be used for the two-year high school certificate.

Six-Year Elementary or Four-Year High School Certificate.

On completion of ten college courses in a first-class college, including 216 hours (18 term hours) in Education, a four-year high school certificate, or a six-year elementary certificate, may be issued. Any two courses in Education will be accepted for the elementary certificate valid for six years, but an applicant must have credit for one full year that bears wholly on high school education before the high school certificate may be issued.

Six-Year High School Certificate

On completion of fifteen college courses, including three courses in Education, a six-year high school certificate may be issued, provided one year bears wholly on high school education, and one term includes a minimum of thirty-six recitation hours in practice teaching.

Permanent High School Certificate

A permanent high school certificate may be issued on a B. A. degree, or its equivalent, and four courses in Education. Two of the courses may be any courses in Education, one of the courses must bear wholly on high school education, and one course must include methods, observation of methods, and practice in teaching.

A permanent high school certificate may be issued on a B. A. degree or its equivalent, two courses in Education, and three years teaching experience. One course in Education must bear wholly on high school education, and the teaching experience must be had after the degree is conferred.

One Year Extensions of Certificates of Any Grade

Students of Texas Technological College have the privilege of taking advantage of the new certificate law passed by the Legislature of Texas and designed to extend for one year a certificate of any grade.

This applies to the completion of nine term hours in the summer school only for the extension of certificates expiring during the current year after the opening of summer school.

Special Certificates

Certificates authorizing the holders to teach the special subjects of agriculture, home economics, commercial subjects, public school drawing, expression, manual training, physical training, public school music, vocal music, instrumental music, industrial training, or foreign languages, are authorized under certain requirements. Persons interested should consult the head of the department concerning the special requirements for securing these certificates.

Courses in Government Required for a Certificate

On and after September 1, 1930, a teachers' certificate issued by the State Department of Education based on college work will require courses in Government covering the federal and Texas constitutions. Government 131-2-3 will satisfy the requirement for freshmen or sophomores; Government 331-2 will satisfy the requirements for juniors or seniors.

EDUCATION

131. *Introduction to Education.*

A brief survey of the general field of education, with particular reference to the origin and development of present-day practices in the public schools.

132. *Class Room Organization and Control.*

A study of the problems of classroom organization and control; the fundamental principles of classroom management and their application in the schoolroom; the relation of the classroom teacher to the superintendent, principal, and fellow-workers; the orientation of the teacher to the physical, social and professional milieu.

133. *Methods of Teaching in the Elementary Grades.*

Methods of learning involved in the various school subjects and corresponding methods of teaching; planning of lessons and criticism of recitation work; type lessons in reading, language, arithmetic, spelling, history, geography. A discussion of elementary skills and how they may be acquired in the schoolroom.

230. *Rural Education.*

A study of practices, tendencies and improvements in rural schools. The relation of rural schools to rural life problems.

231. *Educational Psychology.*

Prerequisite: Sophomore standing.

The principles of psychology in their application to education, with emphasis upon the mental processes involved in the study of the various

school subjects. The native responses of the child and their modification by education; the different types of learning, methods of memorizing, transfer of training, and fatigue.

2311. *School Health and Hygiene.*

The organization and administration of school health programs with special emphasis on the public health aspects of school hygiene and its relation to the work of the principal and classroom teacher. A brief survey of the principles and methods of preventive mental hygiene is also included.

232. *History of Education.*

Prerequisite: Sophomore standing.

Educational ideals, ancient and modern. Education as related to civilization, development of public education, current educational problems.

234. *Secondary Education.*

Prerequisite: Sophomore standing.

Functions of the high school as disclosed by a study of the secondary school population, and of the high school as a social institution. The secondary school pupil, physical and mental; individual differences; character and classification of education in America and other countries; relation of principles determining the aims and functions of secondary education.

235. *The High School Curriculum.*

Prerequisite: Sophomore standing.

An evaluation of instructional material and pupil activities in the light of the aims and purposes of the high school. The function and place of the different high school subjects will be discussed, and their organization in the curriculum determined.

236. *Methods of Teaching in the High School.*

Prerequisite: Sophomore standing.

Economy in classroom management; selection and arrangement of subject matter; adapting classroom instruction to differences in capacity; supervised study; laboratory methods, technique of socialized procedure; quizzes, examinations, marking.

237. *Kindergarten-Primary Education.*

Prerequisite: Sophomore standing in Education.

An introduction to kindergarten-primary education dealing with such general topics as organization, curriculum and methods and the psychological principles upon which they are based.

2371. *Kindergarten-Primary Education.*

Prerequisite: Education 237.

A continuation of 237 dealing with specific methods of teaching

the English, the social subjects, numbers, nature study, and the arts in the kindergarten and primary grades.

2372. *The Teaching of Reading.*

Prerequisite: Sophomore standing in Education.

A study of the development of the reading process through the first six grades including specific objectives, attainments, methods and techniques.

238. *Literature in the Primary Grades.*

Prerequisite: Sophomore standing in Education.

An intensive study of the literature, both poetry and prose, for children of various ages, involving actual practice in judging, evaluating, selecting, and telling stories for children.

239. *Principles of Teaching.*

Prerequisite: Sophomore standing in Education.

A basic course involving the fundamental principles of teaching and their relation in its practice as an applied art.

330. *The Principal and His School.*

Formerly Education 330S.

Prerequisite: Junior standing in Education.

331. *Principles of Education.*

Prerequisite: Junior standing.

Educational theory stressing the more important principles involved in the processes of education. Special attention to the biological, psychological and sociological bases and processes of development and adjustment.

332. *High School Problems.*

Prerequisite: Junior standing in Education.

The organization of the high school; curriculum reconstruction; the high school pupil; the selective character of secondary education; selected topics.

333. *Observation and Practice.*

Prerequisite: Junior standing in Education.

A study of principles of teaching, observation of class work, construction of lesson plans, and teaching under supervision in the Lubbock public schools.

335. *The Junior High School.*

Prerequisite: Junior standing in Education.

Designed to give teachers and principals a knowledge of the principles underlying the organization of the junior high school. Topics: The function of the junior high school; curricula and programs of study; discipline and social activities; homogeneous grouping; articula-

tion with the elementary school and the senior high school; study of concrete cases and local conditions.

336. *Educational and Vocational Guidance.*

Prerequisite: Junior standing in Education.

Designed for superintendents, principals and teachers who feel the distinctive need for educational, professional and vocational guidance. Guidance for college students, and also for students of junior and senior high school rank.

*337. *Classroom Tests.*

Prerequisite: Junior standing in Education.

A critical study of new-type tests, their advantages and disadvantages; practice in making and giving teachers' classroom tests; scoring and tabulating results; using tests for diagnosis and the improvement of teaching; comparison of traditional and new-type tests, with an evaluation of each.

*338. *Every Teacher's Problems.*

Prerequisite: Junior standing in Education.

An enumeration and discussion of the problems that confront the teacher in the schoolroom and some guiding principles for their solution. Individual and social as well as professional problems that are common to present-day teachers.

*339. *Sociological Principles of Education.*

Prerequisite: Junior or Senior standing in Education.

A comparison of the fields of psychology and sociology in their relation to the principles and processes of education.

3310. *Mental Tests.*

Prerequisite: Education 3313.

A course dealing with the principles, application and technique of the various types of mental tests. The chief emphasis will be given to the theory of mental tests and to the application of such tests to the fields of education, business, the professions, etc.

3311. *Materials and Methods of the Primary Grades.*

Prerequisite: Nine term hours of Primary Education.

An advanced course for students who have had previous courses in primary work. An examination and evaluation of the late materials, methods and research problems pertaining to the first three grades.

3312. *The Primary Curriculum.*

Prerequisite: Nine term hours of Primary Education.

A course designed to handle problems of selection and organization of subject matter of the kindergarten and first three grades. Numerous

*Education 337, 338, 339 are designed for teachers in service. Hours will be arranged to suit the convenience of the classes, probably on Saturdays.

curricula will be examined, discussed and evaluated and tentative objective and curriculum outlines presented.

3313. *Measurement in Education.*

Prerequisite: Junior standing in Education.

The instruments and technique of measuring the results of instruction. Tests, tabulation and established treatment of scores; interpolation, description and uses of results for improving instruction.

431. *Directing Study.*

Prerequisite: Junior or Senior standing in Education.

Discussion of the literature involving individual and group study. An evaluation of study plans and methods for stimulating and guiding pupils at work through the technique of study.

432. *Texas Educational System.*

Prerequisite: Junior or Senior standing in Education.

The history and development of education in Texas; the parts of the system and how they function; state, county and local administration; a discussion of present practices, including school laws and administrative processes; state aid, classification, affiliation and consolidation.

434. *Education in the United States.*

Prerequisite: Education 232 and Senior standing.

A comprehensive survey of educational history, theory, and practice in the United States; the origin and development of public elementary and secondary education.

435. *The Curriculum.*

Prerequisite: Senior standing or consent of instructor.

The problems of curriculum reconstruction in the light of recent investigations. A detailed study of the fundamental bases of the curriculum. The relation of curricular and extra-curricular activities.

436. *Public School Administration.*

Prerequisite: Senior standing or consent of instructor.

A study of the problems that confront the superintendent or principal, such as classification and grading, arranging courses of study, selection and improvement of the teaching staff, relations with teachers, school board and general public.

437. *School Publicity.*

Prerequisite: Senior standing in Education.

The aims and underlying principles of school publicity policy, organization of publicity, media of approach to the public, and appraisal of publicity work.

438. *The Supervision of Instruction.*

Prerequisite: Senior standing in Education.

Designed to give prospective principals, superintendents, supervisors, and teachers an understanding of the principles and technique of supervising instruction. The organization and planning of supervision, methods and devices for the improvement of teaching, evaluating the efficiency of teachers and supervisors, and the training of supervisors.

439. *The Philosophy of Education.*

Prerequisite: Senior Standing in Education.

A rapid survey of the important educational theories which have prevailed in the past, and their significance. A more detailed study of modern educational aims and conceptions. The bearing of these aims upon current educational practices.

530. *Research.*

Prerequisite: Graduate standing in Education.

Investigation of special problems in education selected in conference with the instructor.

531. *Public School Business Administration.*

Prerequisite: Graduate standing in Education.

A study in educational finance, including the principles underlying the levy of school taxes, apportionment of school funds, the school budget, salary schedules, and comparative school costs.

536. *Guidance Problems.*

An extension of Education 336 with an opportunity to work out specific problems in guidance.

For senior and graduate students.

537. *The Technique of Classroom Tests.*

Prerequisite: Senior or graduate standing and 27 term hours in Education.

Traditional examinations and objective tests compared; the theory of the construction of tests. How to score, the treatment of scores. The interpretation and use of tests.

538. *Problems in Education.*

Prerequisite: Senior or graduate standing and 27 term hours in Education.

An enumeration and analysis of certain problems that confront the teacher as a member of the teaching profession. For 1930: The ethics of the profession, training teachers in service, and teachers' pensions will be discussed. Each member of the class will propose and write upon one individual problem.

PSYCHOLOGY

230. *Introduction to Psychology.*

Prerequisite: Sophomore standing.

A general introduction to the study of mental processes. Lectures, recitations, and demonstrations illustrating the principles of general psychology.

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For Introductory course in Educational Psychology see Education 231.

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232. *General Psychology.*

Prerequisite: Psychology 230 or its equivalent.

Continuation of Psychology 230. A survey of certain problems, principles and methods of psychology. Facts and theories current in general psychological discussion.

236. *Business Psychology.*

Prerequisite: Six hours in Psychology.

A course in applied psychology arranged specially for students interested in the psychology of advertising and salesmanship.

331. *Child Psychology.*

Prerequisite: Six hours in Psychology.

The physiology and psychology of childhood. The effect of child study on methods of instruction and school management. The general nature, growth and development of the child.

332. *Advanced Educational Psychology.*

Prerequisite: Education 231 or its equivalent, and Junior standing.

A more detailed study of the psychological processes which have to do with school room situations, such as laws and principles of learning, how to study effectively, transfer of training, problems of heredity, individual differences, and measurements of intelligence.

333. *Social Psychology.*

Prerequisite: Six hours in Psychology.

A study of human nature from the standpoint of social behavior. Influences of the social environment upon the mental and moral development of the individual.

334. *Experimental Psychology.*

Prerequisite: Nine hours in Psychology.

Mainly laboratory work with standard apparatus in current problems in experimental psychology. Special attention to methods of psychological investigation and the collection and treatment of data. Individual and group experiments.

335. *The Psychology of Adolescence.*

Prerequisite: Six hours in Psychology.

The interpretation of adolescent behavior on the basis of the developmental changes of the period. The important physical, mental and moral changes natural to adolescence. Of special interest to all who have to deal with boys and girls of high school age.

337. *Statistics.*

Prerequisite: Junior standing.

A basic treatment involving the mathematics of statistics.

Fee: \$1.50.

338. *Statistics.*

Prerequisite: Junior standing.

Fundamentals of Educational statistics.

Fee: \$1.50.

339. *Statistics.*

Prerequisite: Junior standing.

Continuation of 338.

Fee: \$1.00.

RELIGIOUS EDUCATION

137. *Introduction to New Testament Study.*

(Formerly Religious Education 127.)

138. *Introduction to Old Testament Study.*

(Formerly Religious Education 128.)

139. *The Life of Christ.*

(Formerly Religious Education 129.)

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For information relative to the teaching of various high school subjects see courses listed in various departments, as follows:

Biology 211-12-13, The Teaching of Biology; Chemistry 230, The Teaching of Chemistry; English 3310, The Teaching of High School English; History 530, The Teaching of History in High School; Latin 339, Teachers' Course in Latin; Mathematics 334-5-6, The Teaching of Secondary Mathematics; Public School Music 330; Physics 233, The Teaching of High School Physics; Speech 431, Teachers' Course; Spanish 634, Teachers' Course in Methods of Teaching Spanish; Home Economics Education 431-2-3.

DEPARTMENT OF ENGLISH

Professors Carter, Mills, Smallwood, Doak. Associate Professors
†Gates, McGee, Fowler, Robnett. Assistant Professors Strout,
Cunningham, Murphy, Horne. Instructors †Allen, Gill,
Teague, *Knickerbocker.

For a major in the Department of English 54 term hours are required, of which 36 must be in the courses that bear the catalogue numbers 300 and above. Students who do major work in English with the expectation of teaching English in the high schools (or of going forward to professional degrees) must from the beginning of the junior year follow a determinate program of study prescribed by the head of the department.

Courses required for an English major: English 332; 337 or 534; 432; 334 or 437; 430 or 431; 330; 434 or 537; 435 or 436; 531 or 532 or 5330; and three optional courses.

A full program of English study for the Master's degree is now possible. In August 1929 the following theses were accepted by the Department of English in partial fulfillment of the requirements for the Master's degree: Chaucer's Redaction of the Character of Cressida, Mary Dale Buckner; A Study of the Comitatus Relationship in Anglo-Saxon Poetry, Minnie Lee Barrett Shepard; Some Romantic Writers as Revealed in the "Noctes Ambrosianae", C. Frances Van Pelt; The Grotesque in the Novels of Charles Dickens, Alva Dayle Wallace.

English 131-2-3 (Composition and Rhetoric), or its equivalent, is required of all entering students. English 231-2-3 (Introduction to the Study of Literature) is required of all students in the Schools of Liberal Arts and Home Economics. Special courses for sophomore students in the Schools of Engineering and Agriculture have been provided in English 2310-11-12 and 2313-14 respectively.

ENGLISH

131-2-3. *Composition and Rhetoric.*

Lectures, themes, conferences, and assigned readings.

231-2-3. *Introduction to the Study of Literature.*

Lectures, themes, and assigned readings.

2310-11-12. *Writing based on Nineteenth Century Masterpieces.*

Weekly themes, with considerable reading in standard English literature.

For Engineering Students.

*Absent on leave 1929-30.

†Absent on leave 1930-31.

2313-14. *Special Work on Correct Usage.*

Themes, reports, and much practical experience in precise writing.

For Agriculture Students.

*Language*327. *Grammar as a Science.*

Prerequisite: English 337, or a fair mastery of accepted usage and principles.

Actual grammar of our language as learned from a textbook and through original studies.

332. *History of the English Language.*

The development of the English Language from the beginnings, with special reference to the use of English in America.

337. *Grammar for Speech.*

Accepted usage, and principles useful for English and foreign languages.

*Drama*334. *American Drama: from the beginning of 1830.*

Plays, playwrights, and stage movements, with special attention to native themes and ideals.

335. *American Drama: 1830 to 1900.*

The geographical expansion of the theater.

336. *American Drama: 1900 to the Present.*

Individual and group tendencies in the drama.

430. *Elizabethan Drama.*

Non-Shakespearean drama, from Dekker to Shirley.

431. *Restoration and Eighteenth Century Drama.*

Representative plays from Dryden to Sheridan.

432. *Shakespeare and the Background.*

Lectures, reports, and a study of three plays.

433. *Shakespeare Criticism.*

An investigation of Shakespeare criticism, together with a reading of six plays.

437. *Pre-Shakespearean Drama.*

The plays of Lyly, Greene, Peele, Kyd, and Marlowe.

439. *Contemporary Drama: Ibsen to Shaw.*

The dramatic work of Ibsen, Strindberg, Tolstoy, Chekhov, Hauptmann, Wedekind, Becque, Hervieu, Galsworthy, and Shaw.

*Poetry*330. *Chaucer.*

The prologue, tales and lyrics, with some consideration of Chaucer's age, art and sources.

333. *The Elizabethan Lyric.*

Emphasis on Spenser, Shakespeare, Jonson, Donne, and Campion.

338. *American Poetry: Bryant to Longfellow.*

Emphasis on the distinguishing quality and style of the individual writer.

339. *American Poetry: Whittier to Whitman.*3390. *American Poetry: Emily Dickinson to the Present.*3391. *Contemporary English Poetry.*

The verse of Masfield, Ernest Dowson, James Elroy Flecker, Rubert Brooke, and Thomas Hardy.

421. *Dryden.*

The major poems and the minor poems, with some emphasis on the translations.

422. *Pope.*

Satires, lyrics, with some emphasis on the translations.

427. *Browning.*

The major and minor poetry.

428. *Tennyson.*

Many of the shorter poems and several of the longer works.

429. *The Pre-Raphaelites.*

D. G. Rossetti, Swinburne, William Morris, and Christina Rossetti.

434. *Milton.*

The major and minor English poems.

435. *English Romanticism.*

Selected poems of Burns, Wordsworth, and Coleridge.

436. *English Romanticism.*

Selected poems of Byron, Shelley, and Keats.

537. *Spenser.*

The Shepherd's Calendar, Amoretti, several of the shorter poems, and selected parts of The Faerie Queene.

*Prose and Prose Fiction*424. *American Prose: Franklin to Holmes.*

An appreciative reading and literary appraisal of the more significant prose writers.

426. *Literary Biography.*

Its function and place in letters, and reading of several outstanding biographies.

438 *Nineteenth Century English Prose.*

Selections from the writings of Lamb, Hazlitt, DeQuincey, Carlyle, Ruskin, Arnold, and others.

531. *The American Novel: 1870 to the Present.*

James, Howells, Wharton, Gale, Drieser, Hergesheimer, Cather, and others.

532. *The English Novel: Lyly to Scott.*533. *Types of English and Foreign Fiction; 1825 to 1910.*536. *Contemporary English and American Essay.*

Leacock, Powys, Canfield, Chesterton, Galsworthy, Hudson, Montague, Morley, and others.

5330. *The Structure of the Novel.*

An examination of the elements that constitute the novel and of the problems of craftsmanship that condition the novel as a literary form.

*General Literature*236. *Biblical Literature.*

The influence of the Bible upon English literature, with special reference to the works of Shakespeare and Browning.

322. *Outline of English Literary History: 1340 to 1660.*

A chronological survey of English literature and its historical background.

323. *Outline of English Literary History: 1660 to 1798.*324. *Outline of English Literary History: 1798 to 1900.*3310. *Methods of Teaching English in the High School.*423. *The Age of Johnson: Johnson and His Circle.*538. *Southern Literature.*

Important writers and speakers of the South, with some emphasis on regional themes.

*Graduate Courses*534. *Old English.*

An introduction to the phonology and morphology of Old English.

535. *Beowulf*.

Reading and discussion of selected passages of the Wyatt and Chambers edition of *Beowulf*.

540. *Seminar: History of Literary Criticism*.

Dante, the Elizabethans, Dryden, Lessing, Sainte-Beuve, and Matthew Arnold.

541. *Seminar: Wordsworth and the French Revolution*.

A study of Wordsworth's poetry in relation to the contemporary background. Discussion of such topics as Godwin and "The Borderers"; the influence of Rousseau and Godwin on the "Lyrical Ballads"; De Selincourt's edition of the two versions of "The Prelude."

542. *Seminar: American Poetry and Poetic Theory*.544. *Seminar: Byron and Shelley*.

Prerequisite: English 435 and 436, graduate standing, or English 541.

550. *Chaucer: The Longer Poems*.

JOURNALISM

English 131-2-3, or practical newspaper experience, is prerequisite to any course in Journalism.

234. *Newspaper Reporting and Writing*.

News writing, including a study of the sources of news, methods of gathering news, news values and types, and preparation of copy.

235. *Special Feature Articles*.

Special newspaper, magazine and syndicate feature articles; types; sources; methods of writing; illustration; and marketing.

236. *News Editing*.

Valuation of news; copy editing; newspaper style; building heads; typographical styles; make-up; proofreading; rewriting; and much practice.

325. *Advanced Composition*.

Prerequisite: Grades of A or B in the first two years of English.

337. *Management of the Newspaper*.

Organization, sources of income and expenditure, advertising and circulation, news services, salaries and wages, unions, publishers' associations, and general business problems.

338. *Editorial Writing*.

The history and development of the editorial. Training in editorial writing with reference to style, content, and purposes.

339. *History of American Journalism.*

The origin and growth of the American newspaper, from the colonial paper to the metropolitan journal of today.

430. *Principles of Journalism.*

The law of libel, newspaper ethics, and the relation of the press to society.

431. *Publicity.*

Methods used by business, educational, and religious institutions. Publicity programs.

432. *High School Journalism.*

Problems of the teacher and adviser; functions of high school publications; organization and training of the staff; editorial and business problems.

530. *The Short Story.*

Designed primarily for those interested in writing the short story, with considerable attention given to the analysis of representative modern stories.

DEPARTMENT OF FRENCH

Professor Beck. Associate Professor Henninger. Assistant Professor Farrow.

131-2-3. *A Course for Beginners.*

Grammar, reading and conversational practice. Much attention given to pronunciation and the training of the ear.

231-2-3. *Reading of French Texts.*

Prerequisite: French 131-2-3, or two years of high school French.

Reports, grammar review, composition and conversational practice.

331-2-3. *History of French Literature.*

Prerequisite: French 131-2-3, 231-2-3, or four years of high school French.

A general survey course intended to impart familiarity with the principal names, titles, and currents. Class readings, reports, and lectures. Considerable work in composition and methodic interpretation of texts, "La Lecture Expliquée."

431-2-3. *French Literature of the Eighteenth and Nineteenth Centuries.*

Prerequisite: French 331-2-3, or its equivalent.

An intensive study of pre-revolutionary and pre-romantic movements. Victor Hugo and the Romantic Movement. Lectures, assigned readings, term papers. Conducted chiefly in French. For advanced undergraduates and graduate students.

Offered only if there is a satisfactory demand.

For the purpose of offering the added advantage of direct conversation, French plays are staged by this department throughout the year. Second and third year students of good standing are eligible to participate.

DEPARTMENT OF GEOLOGY

Professor Patton. Associate Professors Stainbrook, Robinson. Assistant Professor Sidwell.

Students desiring professional training in geology may register as Liberal Arts students and major in geology, or they may pursue the course in Geological Engineering offered in the School of Engineering. Students who elect to major in geology must select their courses in consultation with the head of the department. Students who wish to take the course in Geological Engineering are referred to the announcements of the School of Engineering.

Students in the School of Liberal Arts who desire to fulfill their science requirements may take Geology 141-2-3. Geography 131-2-3 may be taken as a second science.

131-2-3. *Human Geography*. 2 lecture hours, 3 laboratory hours.

A study of man's relation to his physical environment with special emphasis on the economic life of different peoples.

Fee: \$4.00.

141-2-3. *General Geology*. 3 lecture hours, 3 laboratory hours.

Intended both for those who desire a knowledge of geology for cultural purposes and as a foundation course for those intending to take further work in geology.

Fee: \$4.00.

231-2. *Mineralogy*. 1 lecture hour, 6 laboratory hours.

Prerequisite: Preceded or accompanied by Chemistry 141-2-3.

Principles of crystallography; methods of identification of minerals; occurrence and properties of minerals.

Fee: \$3.00.

233. *Introductory Economic Geology*.

Prerequisite: Geology 231-2.

An introductory course in the economic aspects of geology, treating

of the origin, occurrence, discovery, and development of the principal metallic and non-metallic minerals, together with their relation to economic and political problems.

290. *Field Geology.*

Prerequisite: Geology 141-2-3.

An intensive study of the geology of a given region with training in the methods of geologic surveys and field investigation, and a reconnaissance survey of a larger region for the purpose of acquainting the student with as many different types of geologic problems as possible. The field for the intensive work for 1930 will be the Grand Canyon of the Colorado, Arizona. For the reconnaissance survey, a trip will be made across the Colorado Plateau, the Great Basin, the Sierra Nevada Mountains, and the Southern Rocky Mountains. The party will leave Lubbock by auto June 2, and will return to Lubbock July 14. Each student will be required to make in advance a written application on a form supplied by the Department and accompanied by a deposit of \$75.00, which will pay for the enrollment fee, transportation, and board for the six weeks.

311-2-3. *Geology of Texas.* 1 lecture hour.

Prerequisite: Geology 141.

Physical and historical geology of the State of Texas.

330. *Geologic Mapping.* 1 lecture hour, 6 laboratory hours.

Prerequisite: Geology 141-2-3, and Civil Engineering 230 or Civil Engineering 241-2-3.

Methods of using the surveying aneroid, hand level, clinometer, Brunton compass, hand transit, telescopic alidade; plane table methods; making of topographic surveys and structure contour maps.

Fee: \$1.50.

332-3. *Engineering Geology.* 2 lecture hours, 3 laboratory hours.

Prerequisite: None.

A course in general geology adapted to the special needs of students in Civil Engineering.

Fee: \$3.00.

334-5-6. *Petrology.* 1 lecture hour, 6 laboratory hours.

Prerequisite: Geology 141-2-3, Geology 231.

A study of rocks and rock making minerals, their characteristics, and methods of field identification. Training in the use of the petrographic microscope, the technique of petrographic methods, the petrology of sedimentary rocks, and the practical application of petrographic methods in economic work, especially to problems of petroleum geology.

Fee: \$4.00; deposit: \$5.00.

337-8-9. *Invertebrate Paleontology*. 2 lecture hours, 4 laboratory hours.

Prerequisite: Geology 141-2-3.

A study of the detailed structures, bases of classification, and geological history of the various groups of invertebrates.

Fee: \$4.00.

413-4-5. *Seminar*.

Prerequisite: Junior or Senior standing.

Assigned readings and discussions of current geological problems.

431-2-3. *Advanced Physical, Structural and Historical Geology*.

2 lecture hours, 3 laboratory hours.

Prerequisite: Geology 141-2-3, 231-2, 233 and 337-8-9.

An intensive study of the outstanding problems in physical, structural and historical geology. Reading in the original literature of each subject.

Fee: \$4.00.

434. *Economic Geology*. (Exclusive of Petroleum) 3 lecture hours.

Prerequisite: Geology 141-2-3, 231-2-3, 234-5-6.

An advanced course in economic geology devoted to problems relating to deposits of metallic minerals. Includes an intensive study of the principal metallic minerals, their mode of occurrence, problems of their genesis, specific problems of the different mining centers, methods of exploration, and economic questions relating to deposits.

435-6. *Geology of Petroleum*.

Prerequisite: Geology 141-2-3, Geology 434.

A course for students expecting to engage in the exploration and development of oilfields. Includes a study of the problems of origin and accumulation of oil deposits, assembling and interpretation of data bearing on problems of petroleum geology, and special consideration of problems peculiar to certain fields.

437-8-9. *Advanced Paleontology*. 1 lecture hour, 6 laboratory hours.

Prerequisite: Geology 337-8-9.

An advanced course in the study of fossils designed especially for those who expect to enter economic work. Especial attention given to micro-fauna and their use in methods of petroleum geology.

Fee: \$4.00.

441-2-3.

Prerequisite: Thirty-six term hours in Geology and Senior or Graduate standing.

Course and credit to depend upon preparation and needs of student. Registration only with the approval of the head of the department.

Fee: \$4.00.

531-2-3. *Sedimentation*. 1 lecture hour, 6 laboratory hours.

Prerequisite: Thirty-six term hours in Geology, including Geology 334-5-6.

An advanced investigative course including the processes and results of sedimentation together with analytical laboratory work on sediments. Special attention to subsurface methods.

Fee: \$4.00.

(Not offered in 1930-31.)

DEPARTMENT OF GERMAN

Professor Beck. Associate Professor Henninger.

131-2-3. *A course for Beginners*.

Grammar, reading, and conversational practice.

231-2-3. *Reading of German Texts*.

Prerequisite: German 131-2-3, or two years of high school German.

Reports, grammar review, composition and conversational practice.

331-2-3. *History of German Literature*.

Prerequisite: German 131-2-3, 231-2-3, or four years of high school German.

A general survey course based upon standard texts. Collateral readings and reports.

334-5-6. *Scientific German*.

Prerequisite: German 131-2-3, 231-2-3, or four years of high school German.

Designed for pre-medical and science students in general.

German 331-2-3 and 334-5-6 may not both be counted toward a degree.

DEPARTMENT OF GOVERNMENT.

Professor Jackson. Associate Professors Pender, Ogdon. Instructors
*Ballard, J. W. Jackson. Graduate Assistant Mamie Wolffarth.

The study of Government aims to train and prepare men and women for responsible citizenship, intelligent voting, efficient public service,

*Leave of Absence 1930-31.

leadership in public affairs; the holding of public office; and the organization of public opinion.

131-2. *The United States Constitution.*

For freshmen and sophomores. Juniors and seniors will take 331.

A fundamental course dealing with the principles, organization and actual workings of the national government. Emphasis will be placed upon the duties and obligations of citizenship.

133. *The Texas Constitution.*

A study of the framework of the government of Texas and a comparison with other state governments. Texas Supreme Court Decisions interpreting the Constitution of Texas will be used.

220. *Parliamentary Law and Practice.*

Open to all students except freshmen.

A study of the recognized rules and practices governing the action of deliberative bodies.

234. *Introduction to Political Science.*

Prerequisite: Sophomore standing.

A study of the origin, development, and functions of political institutions in connection with consideration of political theories.

235-6. *Modern Governments.*

Prerequisite: Sophomore standing.

A comparative study and analysis of the constitutional organization of the governments of England, France, Switzerland and the newer states of Europe.

237-8-9. *Contemporary Legislation.*

Prerequisite: Government 131-2, 133, or American History.

The first part consists of a study of the rules regulating statute law making. The principal part of the course, however, consists of an analysis of contemporary and current political, social, and economic legislation.

310. *Constitution of Texas.*

For senior engineers.

320. *Business Law.*

For engineering students.

331-2. *The United States and Texas Constitutions.*

For juniors and seniors who have not had Government 131-2-3.

334. *Municipal Government.*

Prerequisite: Government 131-2, 133.

The general features of Municipal Government and Administration, with special reference to Texas cities.

335-6. *American Political Parties.*

Prerequisite: Government 131-2, 133.

A survey of the origin and development of political parties in the United States, followed by a study of party functions, organization, campaign methods, elections, and party finance.

337-8. *American Diplomacy and Foreign Service.*

Prerequisite: Government 131-2, 133, or American History.

A study of the relations of the United States to foreign nations and of the organization of the State Department and Foreign Service.

339. *World Politics.*

Prerequisite: Government 131-2, 133, or 9 consecutive term hours in History.

A study of the problems and issues which have arisen in the family of nations, of the organization and efforts to cope with these problems, and of the principles of international conduct.

400. *Readings in Government.*

Registration for this course may be at any time upon approval of the head of the department. It is designed to take care of individual student needs. The number of term hours will be determined by the amount, nature, and character of the work done.

421-2-3. *American Political Ideas.*

Prerequisite: Government 131-2, 133, or American History.

A study of the lives and ideas of leading political thinkers of the United States from the Colonial period to the present.

431. *American Constitutional Law.*

Prerequisite: Government 131-2, 133, or American History.

A study of the interpretation of the Constitution of the United States, Based principally upon Supreme Court decisions. The leading cases in American Constitutional Law will be analyzed.

432-3. *International Law.*

Prerequisite: Government 131-2, 133, or 9 consecutive term hours in History.

A study of the fundamental principles of International Law, with special emphasis upon American interpretations and contributions.

434-5. *Political Geography.*

Prerequisite: Government 131-2, 133, 235-6.

A study of the development and distribution of political ideas and institutions as they are related to geographical regions, so as to acquaint the student with the main problems of politics in their relation to world geography.

436. *Government of Colonies.*

Prerequisite: Government 131-2, 133, 235-6.

A comparative study of the principles of government and methods of administration of colonies and dependencies as developed by the leading colonial powers of the world, with special reference to the government of American colonies.

531-2-3. *Research.*

For graduate students. Registration may be made only upon the approval of the head of the department.

* * *

Business Law.

For number and description of course in addition to Government 320, Business Law, see Economics and Business Administration.

Public Finance.

For number and description of course see Economics and Business Administration.

DEPARTMENT OF HISTORY

Professors Granbery, *Eaves, *Ford, Holden, McKay. Associate Professors *Boone, Carroll, Kinchen.

Within this department are included the allied subjects: Philosophy, Sociology, and Anthropology. Prerequisite to other work in any of these subjects, above the freshman year, is History 131-2-3, except where otherwise indicated. Courses numbered under 300 are introductory, and are intended for freshmen and sophomores primarily, while courses numbered above 300 are advanced, no special significance being given to the number. Separate terms, each being the third of a course, are credited as independent units. The student should, however, take his classes in proper sequence.

HISTORY

For all advanced courses in American History there is prerequisite History 231-2-3 in addition to History 131-2-3. For all other advanced courses 18 term hours in History are prerequisite.

131-2-3 *History of Civilization.*

Survey of world-history, fundamental for further study.

231-2-3. *History of the United States.*

Business Administration students with sophomore standing may be enrolled without the prerequisite.

*Leave of absence, 1929-30.

234-5-6. *History of England.*

Pre-law students, though of the freshman year, will be admitted without the prerequisite.

331-2-3. *History of Europe Through the Renaissance.*334-5-6. *History of Europe Since the Renaissance.*337-8-9. *History of Latin America.*411-2-3. *History of American Diplomacy.*431-2-3. *History of Colonial America.*434-5-6. *History of the United States, from the American Revolution to 1828.*437-8-9. *History of Texas.*

(Formerly History 5313-14-15.)

530. *Teaching of History in High Schools.*

Regularly given during the Spring term, and credited as either History or Education. If credited as History, 18 term hours in History are prerequisite.

531-2. *Recent European History.*533-4-5. *History of the United States, from 1829 to 1876.*536-7-8. *History of the United States, from 1877 to the Present.*631-2-3. *History of the British Commonwealth of Nations.*634-5-6. *Latin America, the United States and the Southwest.*

(Formerly History 5316-17-18.)

Relations of the United States with Latin America, the ancient culture of the Southwest, and the recent development of the States of the Southwest.

637-8-9. *History of the Orient.*

PHILOSOPHY

Philosophy 231-2-3 is prerequisite to advanced courses in philosophy.

231. *Introduction to Philosophy.*

This satisfies the requirement in philosophy for the degree of Bachelor of Arts.

232. *Logic.*

Continuation of Philosophy 231. A study of scientific method, correct reasoning, induction and deduction, fallacies, etc.

233. *Ethics.*

Continuation of 232. A study of the origin and validity of ethical ideas, personal and social, and of present day ethical problems.

331-2-3. *History of Philosophy.*334-5-6. *Aesthetics.*

Philosophy of art and theories of beauty. A study of the principles upon which appreciation of art is based.

431-2-3. *Philosophy of Religion.*

The nature, development, and validity of religion. A comparative study of religions, and of religion in the light of contemporary thought.

SOCIOLOGY

Sociology 231-2-3 is prerequisite to advanced courses in sociology.

231-2-3. *Principles of Sociology.*

An introductory course.

331-2-3. *Rural and Urban Sociology.*

Problems of the country and the city.

334-5-6. *Social Pathology.*

A study of society in its abnormal aspects: maladjustments.

337-8-9. *History of Social Thought.*

Social theory before Sociology became a distinct science and systematic social theory.

431-2-3. *Social Problems.*

An advanced course in the nature of a seminar, calling for research work and the study of specific problems.

434-5-6. *Social Prophets.*

Consideration of the social significance, philosophy, and message of great thinkers who have expressed themselves in literature rather than in systematic form.

437-8-9. *Race Problems.*

A study of race differences and race relations.

ANTHROPOLOGY

331. *Physical and Cultural Anthropology.*

The development of man from his origin.

332. *Ethnology.*

A study of races, with special reference to groups of American Indians.

333. *Archaeology.*

Special study is made of prehistoric civilizations of North and Central America.

431-2. *Field and Museum Technique.*

Permission of the instructor must be secured.

434-5-6. *Southwestern Archaeology.*

A field course consisting of lectures, research, and excavation. Permission of the instructor must be secured.

DEPARTMENT OF LATIN

Director of Department Gordon. Instructor Dingus.

A student credited with four admission units in Latin should take Latin 231. Such a student, on completing the work of 231-2-3 with an average grade of B, will be given degree credit for six term hours beyond the value of Latin 231-2-3, in case the total number of his admission credits is at least sixteen; for four term hours if the total number is fifteen and a half.

101-2-3. *Beginning Latin.*

Forms, word formation, and the fundamentals of syntax, followed by easy reading. Especially adapted to the needs of students preparing for law or medicine. Offered for entrance credit only. Two units.

111-2-3. *Writing Course.*

Required of all students wishing departmental recommendation as teachers of Latin. Strongly recommended for all students offering two or more units in Latin.

131-2-3. *Reading and Composition.*

Prerequisite for 131-2: Two units of high school Latin.

Prerequisite for 133: Three units of high school Latin.

Selections from Caesar, Cicero and Vergil. A review of Latin grammar. Informal instruction in mythology and antiquities.

231-2-3. *Prose Authors and Poets.*

Prerequisite: Latin 131-2-3 or the equivalent, or four units of high school Latin.

Selections from Cicero, Terence and Horace.

330. *The Private Life of the Romans.*

Open to students of junior rank, or by permission of the instructor. Knowledge of Latin not required.

331-2-3. *Junior Reading.*

Prerequisites: Latin 231-2-3 or their equivalent.

Selections from Pliny, Tacitus, Catullus.

334. *The Religion of the Romans.*

Prerequisite: Junior standing or by permission of instructor.

The historical development of Roman religion; detailed study of some of the more important of the Greek and oriental cults adopted by the Romans. Knowledge of Latin not required.

338. *The Aeneid of Vergil. A Teachers' Course.*

Prerequisites: Latin 133, and 231-2-3 or their equivalent.

A study of the epic as a whole; its sources, content, dramatic structure, artistic finish; its rank in literature; translations and reports from Books VII-XII; helps in teaching Books I-VI.

339. *The Teaching of High School Latin.*

Prerequisite: Latin 231-2-3 or their equivalent, and nine hours in Education.

Values, aims, content, methods, and organization of the high school course in Latin; historical background; the teaching of vocabulary, pronunciation, forms, syntax, composition; tests and grades; current literature for Latin teachers.

431-2-3. *Senior Reading.*

Advanced prose and poetry.

DEPARTMENT OF MATHEMATICS AND ASTRONOMY

Professors Michie, Sparks, Hicks. Associate Professor Underwood.

Assistant Professors Thompson, Stafford, Robinson, Edmonson.

Instructors Heineman, Langston, Christianson, Rodeffer.

In the Department of Mathematics, separate courses are arranged for students in the different schools of the College, and a student matriculated in one school may register for a course offered in a different school only with the consent of the dean of his school and of the instructor in charge of the course. Any course for which less than ten students register may be withdrawn at the discretion of the department.

LIBERAL ARTS

A candidate for the degree of Bachelor of Arts must take one full year of mathematics selected from the following courses: Mathematics 131-132-133 or 137-8-9, except that students who enter with two units of algebra and one unit of plane geometry may fulfill the requirements by taking Mathematics 131 and 132. Students who enter with only one unit in Algebra must take Mathematics 130 and 131-132. Those entering with one unit in trigonometry must take Mathematics 131 and 133. Those students majoring in Business Administration take Mathematics 137-8-9.

Courses in Liberal Arts Mathematics numbered 234 and above are advanced courses.

Students who plan to teach mathematics in high school should take at least 27 term hours in mathematics since the department cannot recommend as teachers those who have taken less than one advanced course. Students majoring in physics or chemistry are strongly advised to take advanced courses in mathematics.

Mathematics courses numbered from 237 to 400 are open to graduate students and advanced undergraduate students. Courses numbered above 400 are graduate courses, but may be taken by advanced undergraduate students, with the consent of the instructor.

REQUIREMENTS IN MATHEMATICS FOR THE MASTER OF ARTS DEGREE

For entrance upon graduate work in Mathematics, it is essential that the student should have had college algebra (131, 232, 233), trigonometry (132), and analytical geometry (133, 231), and a full year's course in the differential and integral calculus (234-5-6) and two additional full year courses in such subjects as Theory of Equations.

It is further recommended that in order to broaden his viewpoint, the student's undergraduate preparation should enable him to pursue graduate work in other subjects, such as physics, astronomy, and logic. He should choose not less than one-half and not more than three-fourths of his work in this department.

Students will be admitted to candidacy for the Master's degree in mathematics only if at least three advanced courses in mathematics have been satisfactorily completed. A reading knowledge of either French or German is required of all candidates. Courses numbered above 400 can be counted as work toward the Master's degree.

It is important that a candidate for the Master's degree should plan his work three terms in advance and should have the approval of his adviser, who will aid him in selecting a thesis subject.

For Undergraduates

130. *Intermediate Algebra.*

For students who present only one year of entrance algebra and one year of plane geometry; no credit allowed to students presenting more than one year of algebra for entrance.

131. *College Algebra.*

Prerequisite: Two years of high school algebra and one year of plane geometry.

Quadratics, graphs, progressions, logarithms, permutations, combinations, and the binomial theorem. (Section I designed for students who intend to pursue Mathematics, Astronomy, Physics, or Chemistry beyond the first year courses, and who are prepared to take a more extensive course than the regular 131 course.)

132. *Plane Trigonometry.*

Prerequisite: Two years of high school algebra and one year of plane geometry.

This course includes the study of trigonometric functions of angles, logarithms, circular measure, and solution of right and oblique triangles.

133. *Introduction to Analytical Geometry and Trigonometric Analysis.*

Prerequisite: Mathematics 132.

Brief consideration of cartesian coordinates, plotting curves from their equations, the straight line, and the circle.

137-8-9. *Mathematics Preparatory to Finance, Insurance, and Statistics.*

(Formerly Algebra and Trigonometry.)

Prerequisite: One year of high school algebra, and one year of plane geometry.

Review of elementary algebra, graphs, quadratic equations, logarithms, progressions, curve fitting, method of least squares, permutations, combinations, and probability.

Required of Freshmen in Business Administration.

230. *Teaching of Arithmetic.*

Prerequisite: Mathematics 131 or equivalent.

Designed for teachers of arithmetic in the first seven grades.

231. *Analytical Geometry.*

Prerequisite: Mathematics 133.

A review of the straight line and the circle, followed by a study of the parabola, ellipse, and hyperbola.

232-3. *Advanced Algebra.*

Prerequisite: Mathematics 133.

Fundamental operations, systems of equations, equations of higher degree, elementary theory of equations, exponential and logarithmic series, undetermined coefficients, recurring series, summation series, and probability.

Recommended for all students who intend to teach elementary mathematics or to pursue advanced courses in mathematics.

234-5-6. *Elements of Calculus.*

Prerequisites: Mathematics 231.

A general course in Calculus for Liberal Arts students. Recommended for teachers of high school mathematics; students of physics and those contemplating advanced work in chemistry, statistics, or life insurance.

*For Undergraduates and Graduates*237-8-9. *Elementary Theory of Equations.*

Prerequisite: Mathematics 234-5-6.

Complex numbers, numerical equations, symmetric functions and determinants.

2310-11-12. *Elements of Statistics.*

Prerequisite: Mathematics 137-8-9.

The study of averages, dispersion, frequency distributions, curve fitting, simple and multiple correlation, with application to economics, education, and business administration.

330. *Solid Analytical Geometry.*

Prerequisite: Mathematics 231.

A study of the equations of space, curves, planes, straight line, and quadric surfaces.

331-2-3. *History and Philosophy of Mathematics.*

Prerequisite: Mathematics 234-5-6.

A sketch of the history of mathematics and a philosophical treatment of the topics of arithmetic, algebra, and geometry.

334-5. *The Teaching of Secondary Mathematics.*

Prerequisite: Mathematics 234-5-6.

A thorough study of the number system; the axioms; objectives; and classroom practices in algebra and geometry.

336. *Infinite Series.*

Prerequisite: Mathematics 234-5-6.

Tests for convergence, transformation of series, multiple series, and their special properties, uniform convergence, differentiation and integration of series, functions defined by definite integrals.

337-8-9. *Mathematics of Finance and Insurance.*

Prerequisite: Mathematics 137-8-9.

Interest, annuities, amortization, sinking funds, depreciation, bonds, building and loan associations, and the elements of actuarial science.

Required of all students of Business Administration in junior year. Business Administration students will receive advanced credit for this course.

*Primarily for Graduates*430. *Finite Differences.*

Prerequisite: Mathematics 234-5-6.

The elementary theory presented in detail; also the development of the more important methods of interpolation and summation.

431-2-3. *Advanced Calculus.*

Prerequisite: Mathematics 234-5-6.

Fundamental principles of Calculus; power series; partial differentiation; implicit functions; Gamma and Beta functions; line, surface, and space integrals; vectors; ordinary differential equations; Bessel functions; partial differential equations; Calculus of variations; and elliptic integrals.

434-5-6. *Higher Algebra.*

Prerequisite: Elementary Theory of Equations and the consent of the instructor.

Determinants, matrices, systems of linear equations, linear transformations and other similar topics.

437-8-9. *Modern Higher Geometry.*

Prerequisite: Mathematics 434-5-6, or consent of instructor.

Complete quadrangle, algebraic plane curves, circle geometry, line geometry.

530. *Introduction to Modern Analytical Geometry.*

Prerequisite: Mathematics 234-5-6.

Coordinate systems, properties of curves and algebraic equations.

531-2. *Advanced Differential Equations.*

Prerequisite: Mathematics 433.

Linear equations and equations of the second order, with geometrical and physical applications. Partial differential equations.

533. *Lie Theory of Differential Equations.*

Prerequisite: Mathematics 433.

A study of differential equations from the point of view of continuous groups.

534-5-6. *Projective Geometry.* (Synthetic and Analytic.)

Prerequisite: Mathematics 234-5-6.

Theory of projection, standard theorems and exercises. Earlier treatment synthetic, later treatment analytic, with applications of both treatments.

537-8-9. *Theory of Functions of a Complex Variable.*

Prerequisite: Mathematics 431-2-3, and the consent of instructor.

Elementary functions for complex values of the variable, development and application of the fundamental theorems of the analytical function theory.

5311-12-13. *Theory of Functions of a Real Variable.*

Prerequisite: Mathematics 431-2-3, and consent of instructor.

Number system and its extension, functions of real variables, differentiation, integration, and integrals.

For Engineering Students

All engineering students are required to take seven terms of college mathematics. Freshmen should take Mathematics 1310 and 1311 in the fall term, Mathematics 1312 in the winter term, and Mathematics 1313 in the spring term. The required sophomore and junior courses are Mathematics 2321-22-23 and 3311. Mathematics 3312 is required of all juniors except Textile and Architectural Engineers, and Mathematics 3313 is required of Civil and Electrical Engineers.

100. *Solid Geometry.*

Required, as an extra study, of freshmen in the School of Engineering who do not have admission credit in solid geometry.

1310. *Trigonometry.*

Trigonometric functions of angles, logarithms, solutions of right triangles, circular measure, fundamental trigonometric relations.

1311-12. *College Algebra.*

A review of elementary algebra, quadratic equations, progressions, elementary theory of equations.

1313. *Trigonometric Analysis and Introduction to Analytical Geometry.*

Trigonometric formulas, identities and conditional equations, oblique triangles, graphical representation of complex numbers, DeMoivre's Theorem, the straight line.

2321. *Analytical Geometry.*

The conic sections, polar coordinates, translation and rotation of axes, elements of solid analytics.

2322-23. *Differential and Integral Calculus.*

Differentiation, maxima and minima, rates, formal integration.

3311-12. *Applications of the Calculus.*

Areas, volumes, surfaces, centroids, moment of inertia, pressure, work, series, indeterminate forms, partial differentiation, maxima and minima in two variables.

3313. *Differential Equations.*

Enough of the theory of elementary differential equations to permit the solving of practical problems arising in engineering practice.

4311-12-13. *Advanced Applied Mathematics.*

Prerequisite: Liberal Arts Mathematics 431-2-3 or its equivalent.

Open to seniors and graduates. (a) Least squares and probability, (b) Vector Analysis, (c) Fourier Series and Spherical Harmonics, (d) Integral Equations, (e) Differential Equations of Physics. The

schedule and outline of the course will be adapted to the needs of the students electing it.

For Agricultural Students

134-5-6. *Mathematics for Students of Agriculture.*

College algebra, trigonometry, graphs, business mathematics, averages and mixtures, elements of statistics.

Given to freshmen students in the School of Agriculture.

For Home Economics Students

1300. *Mathematics for Students of Home Economics.*

Selected topics from advanced arithmetic, algebra, and statistics, with special applications to problems arising in Home Economics.

ASTRONOMY

131-2-3. *Popular Astronomy.*

A non-mathematical introductory course designed to give a general knowledge of the fundamental principles and methods of astronomy; essentially descriptive, with elementary mathematical applications.

134-5-6. *Practical Astronomy.*

Prerequisite: Trigonometry and consent of instructor.

Spherical astronomy; theory of the sextant, transit instrument, meridian circle, equatorial, and use of instruments.

DEPARTMENT OF MUSIC

Professor Waghorne. Instructor LeMaire.

The Department of Music, besides its work in instruction, aims to foster all musical activities in the College not only because practice is thus available for the student but also because development and a field for public service is thus made possible. To this end five distinct musical organizations are open to the students as follows:

Choral Club, mixed voices, Wednesdays, 7:30 p. m.

Glee Club for Women, Tuesdays, 4:00 to 4:55 p. m.

Glee Club for Men, Mondays, 4:00 to 4:55 p. m.

College Band, Mondays and Thursdays, 7:30 p. m.

College Orchestra, Wednesdays, 7:30 p. m.

Students desiring credit on choral or glee club work must attend one glee club and one choral club rehearsal each week and register for this as Music 014-5-6. Attendance will be required at performances and such additional rehearsals as are necessary.

In the School of Liberal Arts only nine term hours in Music may be applied toward the Bachelor of Arts degree, except in Public School Music, by special arrangement with the dean and head of the department.

Academic Music

014-5-6. *Choral-Glee Club.*

Students meet one Glee Club rehearsal in the afternoon and a mixed voice ensemble on Wednesdays at 7:30 p. m. Attendance will be required at convocations and performances of the Club with such additional rehearsals as are necessary.

137-8-9. *History and Appreciation of Music.*

A non-technical course especially planned for those interested in music who have had no practical training in the art.

134-5-6. *Elementary Music.*

Ear training in tone and rhythm and the construction of melodies.

234-5-6. *Harmony and Composition.*

Prerequisite: Music 134-5-6.

334-5-6. *Counterpoint and Composition.*

Prerequisite: Music 134-5-6.

434-5-6. *Double Counterpoint; Canon; Fugue; Sonata; and other forms.*

Prerequisite: Music 234-5-6 and 334-5-6.

534-5-6. *Conducting; Instrumentation; Score Reading.*

Prerequisite: Music 235 and 335.

*Public School Music**

Students may specialize in Public School Music, taking Music 134-5-6; 137-8; 130; 230; 330; 234 (27 hours); or 134-5; 137-8; 130; 230 (18 hours).

A student intending to major in the subject must have all the courses listed above having the initial numbers of 1, 2, 3, and 534, 535, with at least one year of Voice in college and also one year of Piano, or satisfy the instructor of his ability to read easy accompaniments, such as are to be found in school song books.

130. *Elementary Methods.* 3 class hours.

Prerequisite: Music 134.

In addition to the class work, regular attendance at Glee Club is required as a part of this course.

*Public School Music 130, 230, and 330 may be counted as Education.

230. *Intermediate Methods.* 3 class hours.

Prerequisite: Music 135.

In addition to the class work, regular attendance at Glee Club is required as a part of this course.

330. *High School Music.* 3 class hours.

Prerequisite: Music 136.

In addition to the class work, regular attendance at Glee Club is required as a part of this course.

Band Music

131-2-3. *Band Music.* 2 recitation hours, 2 rehearsals.

Identical with Music 134-5, but covers in three terms what is covered in the regular work in two terms. To obtain credit, a student must meet the requirements of the band rehearsals.

231-2-3. *Advanced Band Music.*

Band instruments, their range and technique; transposition, ensemble.

APPLIED MUSIC

Before credit can be given in Applied Music entrance requirements (State Examinations in theory and practice or the equivalent) must be met.

Fees for Applied Music must be paid to the individual instructors. See page 49 for list of instructors and fees.

Each year of Applied Music must be accompanied by one term of Academic Music, for which full credit will be granted.

Voice

Freshman Year: Fundamentals of vocal production; Modern Songs.

Sophomore Year: Continuation of fundamentals; Standard book of studies; classic songs.

Junior Year: Continuation of Fundamentals; Arpeggios and chromatic scales. Operatic selections; modern songs.

Senior Year: Selected studies; interpretations; classical and modern songs; oratorio; recitatives and arias. Public recital.

Piano

Freshman Year: Czerny; Burgmiller; Heller; Bach; Mendelssohn; Ensemble.

Sophomore Year: Czerny; Kullak Octave Studies; Heller; Bach Two part Inventions; Mendelssohn; Ensemble playing.

Junior Year: Cramer; Kullak Octave Studies; Bach—Three part Inventions; Chopin Etudes; Ensemble playing.

Senior Year: Clementi; Bach—Well Tempered Clavichord; Chopin Etudes; Ensemble playing; Public recital.

VIOLIN

Freshman Year: Franz Wolfert (Last part Book II, Book III); Hirmalog Scale Studies; Mozes—Book I.

Sophomore Year: Mozes—Book II; Sevcik (Double Stopping and Preparatory); Trill Studies; Hirmalog—Scale Studies and Shifting Exercises; Pieces; Beethoven, Schumann, Dvorak.

Junior Year: Kreutzer Etudes; Beginning of Feorello Bowing Studies; De Beriot Concerto No. VII; Selected repertoire.

Senior Year: Kreutzer and Feorello, continued; Rhode Caprices, Concertos of De Beriot, Bruch; Bach Sonatas; Selected repertoire, classic and modern, for recital.

ORIENTATION FOR FRESHMEN

A general orientation period is set aside at the beginning of each school year for all freshmen of the College. The object of this course is to help the student just entering college to adjust himself more easily to college life. Credit courses are given as outlined below.

110. *Orientation for Women.* 1 lecture hour.

Required of all freshman women in Liberal Arts.

Ten lectures bearing upon the problems of hygiene, budgeting of time and money, social conventions, nutrition, clothing, use of library, and religious experience, as these affect the freshman woman in college. Notes and two hours' reading are required for each lecture.

111-2. *Orientation for Men.* 1 lecture hour.

Required of all freshmen men in Liberal Arts.

Lectures bearing upon the problems which affect the freshman man in college. The course varies from year to year to meet the needs of the individual group. The problem taken up in 1929-30 was "The Technique of Study."

DEPARTMENT OF PHYSICAL EDUCATION

PHYSICAL EDUCATION FOR MEN

Professor Freeland. Assistant Professors Higginbotham, Ingerton,
Payne. Instructor Killin.

Every male student is required to take physical education the first two years in college unless excused by the college authorities. Either physical training or military training may be elected for this requirement.

For the benefit of men who are coaching or who expect to coach, three courses are given. These courses are not designated for players, but are planned specifically with coaching in mind.

PHYSICAL TRAINING

101-2-3. *Physical Training.*

Required of freshmen (Option, Military Training).

Athletic games, calisthenics and corrective exercises. Students are encouraged in any line of activity in which they are interested. Intramural sports continue throughout the year. A special course is offered those students who are not able physically to take part in competitive games. Gymnasium suits and shoes are to be provided by the students.

Fee: \$1.00 each term.

201-2-3. *Physical Training.*

Required of sophomores (Option, Military Training).

A continuation of 101-2-3.

Fee: \$1.00 each term.

431. *Coaching.* 2 lecture hours, 3 laboratory hours.

Football theory and practice.

Fall term.

432. *Coaching.* 2 lecture hours, 3 laboratory hours.

Basketball theory and practice.

Winter term.

433. *Coaching.* 2 lecture hours, 3 laboratory hours.

Track and field theory and practice, with special training in prevention and care of injuries.

Spring term.

MILITARY TRAINING

The course in Military Training parallels the course prescribed by

the government in its schedule of instruction for Infantry Reserve Officers Training Corps. Uniforms are worn.

101-2-3. *Military Training.*

Required of freshmen (Option, Physical Training).

Infantry, close order drill, command and leadership, military courtesy, military hygiene and first aid, and physical drill.

201-2-3. *Military Training.*

Required of sophomores (Option, Physical Training).

A continuation of 101-2-3, with the addition of target, sub-caliber, range work, scouting and patrolling, musketry, interior guard duty, map reading and map making.

331-2-3. *Military Science.*

Prerequisite: Military Science 101-2-3 and 201-2-3 or the equivalent.

A study of machine-gun organizations and principles.

431-2-3. *Military Science.*

Prerequisite: Military Science 331-2-3.

A study of minor tactics supplemented by special lectures in connection with the service.

PHYSICAL EDUCATION FOR WOMEN

Assistant Professors Gilkerson and Riegel. Student Assistant Baskin.

The aim of the physical education work for women is to maintain general health and to provide activities that are physically wholesome.

Every woman student is given a medical examination at the beginning of each year. Excuse from physical education is granted in case of physical disability. Those who are unable to take regular work are given special work.

Every woman student is required to take physical education the first two years of her college work, unless excused by the college authorities.

Texas Technological College Women's Athletic Association

All unrequired athletic activities are sponsored by the Women's Athletic Association. Intramural contests are held in the following sports: Basketball, volley ball, soccer, baseball, and track. In addition to the organized sports, the following clubs are formed: Tennis, riding, skating, hiking, archery, clogging, and tumbling. Points are awarded in accordance with the requirements of the Texas Athletic Conference of College Women.

PRE-PROFESSIONAL WORK

Arrangement for courses for two years pre-professional work in physical education for women:

Freshman Year— Term Hours

English 131-2-3	9
Chemistry 141-2-3	12
A foreign language	9
Education, Psychology 231 (Fall term)	3
Mathematics	6
Physical Education 101-2-3	
Electives (Winter term, 3 hours; Spring term, 6 hours) ..	9

Sophomore Year—

English 231-2-3	9
Government 131-2-3	9
Zoology 134-5-6	9
A foreign language (continuation of first year)	9
Physical Education 201-2-3	9

*Required Physical Education*101-2-3. *General Physical Education.*

Required of freshmen.

Gymnastics, marching, games, folk dances, health lectures, and individual gymnastics.

Fee: \$1.00 each term.

201-2-3. *Advanced Physical Education.*

Required of sophomores.

Tumbling, tennis, riding, basketball, soccer, volley ball, advanced folk dancing, clogging, archery, baseball, track, and swimming.

Fee: \$1.00 each term.

*Credit Physical Education*231. *Plays and Games.*

Fall term.

232. *History of Physical Education.*

Fall term.

233. *Organization of Physical Education in Elementary Schools.*

Winter term.

234. *Organization of Physical Education in Secondary Schools.*

Spring term.

235. *Hygiene and First Aid.*

Winter term.

236. *Technique of Sports.*

Spring term.

237. *Physiology of Exercise.*

Spring term.

DEPARTMENT OF PHYSICS

Professors George, Mast, Abbitt. Associate Professors Hill, Schmidt.

Graduate Assistant Womack.

The elementary courses in physics are designed to cover the fundamental physical laws and principles upon which are based the modern applications of science to the needs of human society. The aim is to teach something of the play of forces in the material world. More extended courses along special lines lead to astronomy, meteorology, weather forecasting, radio, television, X-rays, geophysics, biophysics, physical chemistry, and to the various branches of engineering and applied sciences. Advanced studies in the field of modern physics lead into the realm of sub-atomic energy and the constitution of the universe.

Credit will not be given for more than one of the following courses, since they are to a certain extent parallel:

Physics 141-2-3, Physics 144-5, Physics 334-5. The same holds true for the two courses: Physics 341 and Physics 336-7.

The Department of Physics recommends that anyone expecting to teach physics in high school should take at least 24 hours of college physics.

141-2-3. *General Physics.* 3 class hours, 3 laboratory hours.

Required of all pre-medical students.

A general survey of the entire field of physics, with the employment of only a minimum of mathematics. It consists chiefly of demonstration lectures and quizzes, with a minimum of problems. The course is intended to be informative and cultural, rather than technical. It is designed to meet the requirements of the American Medical Association, and the needs of Liberal Arts students.

Full credit for this course will not be given toward the requirements for an engineering degree.

Fee: \$4.00.

144-5. *Freshman Engineering Physics.* 3 class hours, 3 laboratory hours.

A general survey course which is intended to give the student an

insight into the field of physics and to prepare him for a more advanced and mathematical treatment.

Also open to students in Agriculture.

Fee: \$3.00.

• 233. *The Teaching of Physics.*

Designed especially for those who expect to teach physics in high school. Credit is given in this course toward the education requirements for a teacher's certificate.

241-2-3. *Sophomore Engineering Physics.* 3 class hours, 3 laboratory hours.

Prerequisite: An elementary course in general college physics and freshman mathematics.

The general field of physics; designed especially for engineering students, but open to other students, who meet the requirements.

Fee: \$4.00.

246. *Elementary Radio Communication.* 3 class hours, 3 laboratory hours.

Prerequisite: Physics 141-2-3.

A review of electrical terms and the principles of simple electric circuits; the theory of crystals and vacuum tubes, oscillating circuits, radio and audio amplification, and radio devices in general.

Designed primarily for students who are not taking engineering subjects or who have not had the prerequisites for Physics 441.

Fall term.

Fee: \$1.50.

321-2-3. *Laboratory Physics.* 6 laboratory hours.

Prerequisite: Physics 141-2-3 or equivalent.

For those who desire more laboratory work than is given in general physics. Experiments are selected from all branches of physics on the basis of the student's interest and ability.

The student may register for any one, two, or three terms.

Fee: \$1.50 per term. \$4.00 for all three terms.

324-5-6. *Problems in Physics.* 2 class hours.

Prerequisite: Physics 141-2-3 or Physics 144-5.

Intended to give more thorough preparation for advanced work than is given in Physics 141-2-3. Recommended for students who expect to teach physics in high schools.

331-2. *Electrical Measurements.* 6 laboratory hours.

Prerequisite: Physics 141-2-3 and Mathematics 234-5-6.

Fall and Winter Terms.

Fee: \$3.00.

334-5. *Physics for Home Economics Students.* 2 class hours, 3 laboratory hours.

Principles of heat, electricity, mechanics, light, and sound, with special reference to their application to household appliances.

Fee: \$3.00.

336-7. *Advanced Practical Light.* 6 laboratory hours.

Prerequisite: Physics 141-2-3 and Mathematics 234-5-6.

Same as Physics 341, but with a greater number of experiments and more attention to precision.

Students planning to take this course should not elect Physics 341.

Winter and Spring terms.

Fee: \$3.00.

338-9. *Electricity and Magnetism.* 3 class hours.

Prerequisite: Physics 141-2-3.

Fall and Winter terms.

341. *Elementary Light.* 3 class hours, 3 laboratory hours.

Prerequisite: Physics 141-2-3.

Reflection, refraction, diffraction and polarization.

Fall term.

Fee: \$1.50.

342. *Practical Mechanics.* 3 class hours, 3 laboratory hours.

Prerequisite: Physics 141-2-3.

This is a more thorough course than that offered in general physics, which is a prerequisite to this course.

Fee: \$1.50.

344. *Heat.* 3 class hours, 3 laboratory hours.

Prerequisite: Physics 141-2-3 and Mathematics 234-5-6.

Fall term.

Fee: \$1.50.

441-2. *Thermionic Vacuum Tubes.* 3 class hours, 3 laboratory hours.

Prerequisite: Physics 141-2-3 and Mathematics 234-5-6.

A preliminary study of the electron and certain electrical phe-

nomena; the vacuum tube as a rectifier, an amplifier, an oscillation generator, a detector, etc.

Fee: \$3.00.

433. *Elementary Electron Theory*. 3 class hours.

Prerequisite: Physics 141-2-3 and Mathematics 234-5-6.

A study of the vacuum tube, cathode rays, radioactivity, X-rays, photoelectric effect, ionization and radiation potentials, quantum theory, Bohr theory, and the Compton Effect.

Spring term.

434-5-6. *Theoretical Mechanics*. 3 class hours.

Prerequisite: Physics 342 or its equivalent and mathematics 234-5-6.

531-2. *Introduction to Theoretical Physics*. 3 class hours.

Prerequisite: Two courses in physics and Mathematics 234-5-6.

Mathematical derivations and proofs of the fundamental laws and postulates of dynamics, electrodynamics, thermodynamics, and hydrodynamics.

Fall and Winter terms.

533-4-5. *Mathematical Theory of Light*. 3 class hours.

Prerequisite: Physics 336-7 or Physics 341, and Mathematics 234-5-6.

Geometrical and physical optics. Introduction to spectrum analysis.

DEPARTMENT OF SPANISH

Professor Qualia. Associate Professors *F. Whatley, W. A. Whatley,

Assistant Professor Strehli. Instructor Gates.

Students majoring in Spanish must offer 54 term hours of work in the department, if they satisfy the language requirement for a degree in the same language. Students are urged to satisfy their foreign language requirement in another language, however. In this case, 36 term hours of Spanish are sufficient for a major. Students expecting to major in Spanish should consult with the head of the department.

131-2-3. *A Beginning Course*.

Grammar, reading and conversation.

231-2-3. *Grammar, Reading, Composition, and Conversation*.

Prerequisite: Spanish 131-2-3, or two units of high school Spanish.

*Absent on leave 1929-30.

331-2-3. *Contemporary Literature.*

Prerequisite: Spanish 131-2-3, and 231-2-3, or three or four units of high school Spanish.

An outline of Spanish literature from the beginning of the Romantic Movement to the present. Reading of representative novels, dramas and lyrics. Collateral reading and composition based on readings. Conducted chiefly in Spanish.

Spanish 331-2-3 and Spanish 334-5-6 may not both be counted towards a degree.

334-5-6. *Commercial Spanish.*

Prerequisite: Spanish 131-2-3 and 231-2-3 or three or four units of high school Spanish.

A survey of the history, geography, literature, customs, and economic conditions of Spanish-American countries. Commercial and scientific Spanish and correspondence. Conducted in Spanish.

Designed for engineers, pre-law, and business administration students.

Spanish 331-2-3 and Spanish 334-5-6 may not both be counted towards a degree.

431-2-3. *The Modern Novel.*

Prerequisite: Spanish 331-2-3 or its equivalent.

A study of certain nineteenth century novels representing the various tendencies and regions. Lectures. Written reports. Conducted chiefly in Spanish.

(Given in alternate years; given in 1930-31.)

434-5-6. *The Modern Drama.*

(Formerly Spanish 531-2-3.)

Prerequisite: Spanish 331-2-3 or its equivalent.

A study of the drama from the beginning of the Romantic Movement to the present.

(Given in alternate years; not given in 1930-31.)

437. *Teachers' Course in Methods of Teaching Spanish.*

(Formerly Spanish 634.)

Prerequisite: Spanish 331-2-3 and 1 year in Education.

Preparation for teaching Spanish in high school. Scientific and practical methods with as much practice work as possible.

(Given in the summer only.)

4310-11-12. *Advanced Grammar, Composition, and Style.*

Prerequisite: Spanish 331-2-3.

Recommended for those who intend to teach Spanish.

534-5-6. *The Drama of the Golden Age.*

Prerequisite: Spanish 331-2-3 or its equivalent.

A study of the drama of the seventeenth century. Reading of representative plays; lectures, discussion, collateral reading, and reports.

(Given in alternate years; not given in 1930-31.)

537-8-9. *A Survey of Spanish Literature.*

(Formerly Spanish 631-2-3.)

Prerequisite: Spanish 331-2-3.

The history of Spanish literature from the twelfth to the nineteenth century. Emphasis upon the principal movements and the works of outstanding writers. Readings, lectures, and written reports. Conducted chiefly in Spanish.

Especially recommended for students who expect to teach Spanish.

DEPARTMENT OF SPEECH

Professors Pirtle, Pendleton. Instructor Mowery.

031-2-3. *Technique of Dramatic Art.* 2 class hours, 2 laboratory hours.

Stage technique, make-up, and plays for class production; principles of dramatic interpretation and characterization. Recommended for all students planning to teach.

Speech 031 and 032 must be completed before credit for graduation will be given.

131-2. *Principles of Speech.*

A course in general speech education, to give practical training in public speaking.

133. *Voice and Diction.*

A study in speech mechanism, placing emphasis on improvement of the individual's speech.

134-5-6. *Argumentation and Debate.*

Argumentation, analysis, evidence, persuasive speaking, and brief drawing. Class discussions and debate upon questions of present day interest.

Open to freshmen upon recommendation of the instructor.

Speech 134 and 135 must be completed before credit for graduation will be given.

In the case of seniors, credit may be given for 134, provided a complete year of work in speech is taken.

231-2. *Oratory.*

Prerequisite: Speech 131-2.

Methods of speech preparation and presentation with emphasis on the qualities and structure of an effective address; preparation of outlines and the presentation of formal speeches and addresses.

233. *Technique of Reading.*

Prerequisite: Speech 133.

Theory and practice; expressive reading of different types of literature; emphasis on Shakespeare.

234-5-6. *Stagecraft and Direction.* 1 class hour, 2 laboratory hours.

Prerequisite: Speech 031-2-3.

Historical survey of stagecraft; a study of plans for the construction of the modern auditorium and stage; design and construction of stage models and sets.

Fee: \$4.00.

331-2. *Advanced Oratory.*

Prerequisite: Speech 131-2, 133, 231-2.

Critical analysis of oratorical masterpieces, with study of notes thereon; written outlines and reports. Consideration of the history of oratory with written reports on collateral reading.

333. *Advanced Argumentation.* (Seminar.)

Prerequisite: Speech 134-5-6.

For advanced students only.

334-5-6. *Phonetics and Speech Correction.*

Phonetics and its application to speech correction. Voice mechanism; speech difficulties, and the current methods of diagnosis and treatment.

A course primarily for juniors and seniors.

Required of all majors in speech.

431. *Teachers' Course.*

Methods of teaching speech. Emphasis upon the teaching of the fundamental course.

Required of all majors in speech.

Spring term.

EXPRESSION

Each person taking work in Expression is required to appear in a public performance during the year. Each person in Expression 331-2-3 is required to prepare and give a public recital during the Spring term.

DIPLOMA COURSE IN EXPRESSION

A diploma is awarded on the successful completion of three years of Expression and certain other required courses in the Department of Speech, together with certain general required work. Students planning to take the Diploma course should consult the head of the department.

Requirements for the Diploma Course in Expression

Special Requirements in the Department of Speech—

Expression 131-2-3, 231-2-3, 331-2-3	27 term hours
Speech 131—Principles of Speech	3 term hours
Speech 031-2—Technique of Dramatic Art	6 term hours
Speech 134-5—Argumentation and Debate	6 term hours
Speech 234-5—Stagecraft and Direction	6 term hours
Speech 334-5—Phonetics and Speech Correction	6 term hours

General Requirements—

English 131-2-3, 231-2-3, Electives 9 hours	27 term hours
Psychology 230, 232, Education 231	9 term hours
Psychology or Education	9 term hours
A foreign language	18 term hours
Science, Biology 134-5-6—(The Human Body)	9 term hours
Two years of Physical Education	

Total 126 term hours

131-2-3. *Private and Class Work and Body Training Program.*

The technique of voice and body relative to practical living as well as platform work. A general survey of the field as preparation for advanced work.

231-2-3.

Prerequisite: Expression 131-2-3.

A continuation of Expression 131-2-3 with greater specification. The science underlying the principles involved. Pantomime.

331-2-3.

Prerequisite: Expression 131-2-3, 231-2-3.

The dramatic element in interpretation.

SCHOOL OF ENGINEERING

WILLIAM J. MILLER, DEAN

The importance of the School of Engineering in the Texas Technological College is stressed in the first section of the bill by which the Thirty-eighth Legislature established this institution. It is here pointed out that the commercial development of our State depends largely upon the opportunities for students to obtain thorough training in engineering and manufacturing fields.

PURPOSE

The aim and purpose of the School of Engineering is to give students a thorough knowledge of the fundamentals of all engineering work with specialization in one particular line only to the extent that experience appears to demand as a minimum. In other words, the course of study in the School of Engineering is planned with the view of giving the student the essential basic training which he cannot get after graduation and leaving a large part of his specialization to his later professional employment. Experience has shown this type of training to produce the most successful engineers.

One of the essentials of an engineer is character. Recognizing this fact, the engineering instruction at all times aims to emphasize the qualities of honesty, loyalty, thoroughness and industry. Engineering has taken its rightful place as one of the learned professions, and for this reason the course of study is designed to foster a spirit of culture and ethics. From the foregoing it may be summarized that the ideal product of the Engineering School is a logical thinker who is a man of character, culture, and professional attitude with capacity and love for work, and with a substantial knowledge of facts in his chosen field.

BUILDINGS

The first unit of the Textile Building was completed at the opening of the College. It is a two-story building, about 60x220 feet, and cost with its equipment of modern textile machinery approximately \$250,000.00.

During the fall of 1926 a temporary building 50x100 feet of hollow tile construction was erected to house the pattern-making shop, machine shop, and an elementary mechanical engineering laboratory.

The first unit of the main Engineering Building was built during the school year of 1927-28 and was ready for use at the opening of the 1928-29 session. The unit cost approximately \$250,000.00, and has a floor area of about 52,000 square feet. It includes offices for the Engineering faculty, laboratories and class rooms for the departments of Architectural, Civil, Electrical, and Mechanical Engineering and Engineering Drawing.

Approximately \$70,000 has been expended for apparatus for the above laboratories.

FIELD FOR GRADUATES

The field open to the engineering graduate is too broad and the opportunities which it presents are too numerous to be presented in the space of this bulletin. Engineering has been defined as "The art of directing the great sources of power in nature for the use and convenience of man," which indicates employment in development of natural resources, manufacturing and commerce.

The engineering student upon graduation usually spends a period of time in apprentice or subordinate positions, securing experience and preparing himself for the more important work of the executive, the designer, the consulting engineer, the teacher, or the operator, etc. For a number of years the demand for engineering graduates by the industries has considerably exceeded the supply.

Engineering training is becoming more and more recognized as a desirable preparation for a general commercial career, as it develops a mathematical and analytical type of mind, and demands systematic and methodical work. For this reason many engineering graduates eventually hold important executive positions.

ADMISSION REQUIREMENTS

In addition to the general College requirements given on page 35, fifteen high school units as given below are required for admission to the School of Engineering:

Subject—	Units—
English	3
*Mathematics	3
Algebra 2.	
Plane Geometry 1.	
One foreign language or two units either in laboratory sciences or in laboratory sciences and solid geometry and trigonometry	2
Social Sciences (at least one of which must be History) ..	2
Elective Units from any accredited high school subjects not more than four of which may be vocational subjects ..	5
Total	15

REGULATIONS

The regulations governing the students in the School of Engineering are essentially the same as those applying to students of other Schools of the College. See pp. 39 to 46.

Several regulations peculiar to this School are given below.

*If solid geometry is not offered as an admission unit, it must be completed before the Sophomore year. No college credit is given for solid geometry. It is urged that prospective engineering students take this subject in High School.

TRANSCRIPTS

Students transferring from other colleges will be given credit for only courses that have been passed with a grade which is one letter above the passing grade in the institution from which the student comes; and then only when such courses or their equivalent are given for credit in Texas Technological College. Furthermore, any transfer who expects to be graduated from Texas Technological College must meet the regular requirements for graduation and must complete a minimum of 45 term hours in this institution.

SCHOLARSHIP PROBATION

Students in this School who fail to pass as many as 9 hours in the term that they are re-admitted on scholarship probation as indicated on page 43 are suspended for one term before they are given a final trial.

REQUIREMENTS FOR GRADUATION

Uniform Freshman Year

All Engineering students are required to take identical work throughout the freshman year. This is done in order that the student, before he chooses his professional course, may have the opportunity of becoming more familiar with the courses of instruction and the possibilities after graduation in the various branches of engineering.

Freshman students are required to attend certain scheduled lectures and motion picture showings on the scope and opportunities of the various branches of the profession. Attendance on this course of freshman lectures is a requirement for a degree. An unapproved absence in this subject means failure of the course, which must then be repeated, before credit can be gained.

DEGREES

The degree of Bachelor of Science in Architectural, Civil, Electrical, Geological, *Mechanical, and Textile Engineering will be conferred upon students who satisfactorily complete the requirements of the respective curricula as outlined on the following pages.

Electives in any curriculum must be approved by the Head of the Department in which the student seeks a degree.

Subjects to absolve extra hours required for absences must be approved by the Dean.

In accordance with an Act of the State Legislature all students of State supported educational institutions must pass a course in State and Federal Constitutions before they can receive a degree. This act goes into effect September 1, 1930. An appropriate course in this subject therefore must be passed by seniors before they can be given a degree.

*Chemical Engineering is offered as a division of Mechanical Engineering and leads to the degree of Bachelor of Science in Mechanical Engineering (Chemical Engineering option).

UNIFORM FRESHMAN YEAR FOR ENGINEERING STUDENTS

Fall Term				Winter Term				Spring Term						
Subject		Term Hours	Page	Subject		Term Hours	Page	Subject		Term Hours	Page			
Eng.	131	Composition	3	89	Eng.	132	Composition	3	89	Eng.	133	Composition	3	89
*Chem.	141	Elementary	4	72	Chem.	142	Elementary	4	72	*Chem.	143	Elementary	4	72
Math.	1310	Trigonometry	3	110	Math.	1312	Algebra	3	110	Math.	1313	Analytics	3	110
Math.	1311	Algebra	3	110	Phys.	144	Eng. Physics	4	118	Phys.	145	Eng. Physics	4	118
[E. Dwg.	135	Eng. Drawing	3	148	E. Dwg.	136	Eng. Drawing	3	148	E. Dwg.	137	Eng. Drawing	3	148
P. T.	101	Physical Training	1	115	P. T.	102	Physical Training	1	115	P. T.	103	Physical Training	1	115
			17				18						18	

*Geological Engineering students will take Geology 141, 142, 143, instead of Chemistry in Freshman year.

!Textile Engineering students will take Chemistry 113 with Chemistry 143.

||Students not having had solid geometry will take Engineering Drawing 134 instead of 135.

1.30

TEXAS TECHNOLOGICAL COLLEGE

Fall Term					Winter Term					Spring Term				
					Freshman Year See page 129 Sophomore Year									
Subject		Term Hours		Page	Subject		Term Hours		Page	Subject		Term Hours		Page
*Eng.	2310	Lit. and Comp.	3	89	*Eng.	2311	Lit. and Comp.	3	89	*Eng.	2312	Tech. Writing	3	89
Phys.	241	Soph. Eng. Phys.	4	119	Phys.	242	Soph. Eng. Phys.	4	119	Phys.	243	Soph. Eng. Phys.	4	119
Math.	2321	Analytical Geom.	3	110	Math.	2322	Calculus	3	110	Math.	2323	Calculus	3	110
E. Dwg.	231	Descriptive Geom.	3	149	Arch.	131	Shades & Shadows	3	137	Arch.	132	Perspective	3	137
Arch.	121	Object Drawing	2	139	Arch.	122	Object Drawing	2	139	Arch.	123	Object Drawing	2	139
Arch.	133	Elements of Arch.	3	138	Arch.	134	Elements of Arch.	3	138	Arch.	135	Elements of Arch.	3	138
P. T.	201	Phys. Training	1	115	P. T.	202	Phys. Training	1	115	P. T.	203	Phys. Training	1	115
			19					19					19	
					Junior Year									
C. E.	331	Applied Mechanics	3	144	C. E.	332	Applied Mechanics	3	144	C. E.	333	Applied Mechanics	3	144
C. E.	330	Surveying	3	143	C. E.	338	Structures	3	144	C. E.	339	Structures	3	144
E. E.	334	Elements	3	146	E. E.	335	Elements	3	146	E. E.	336	Elements	3	146
Arch.	234	Arch. Design Grade I	3	138	Arch.	235	Arch. Design Grade I	3	138	Arch.	246	Arch. Design Grade I	4	138
Arch.	220	Pencil Rendering and Sketching	2	139	Arch.	224	Water Color	2	139	Arch.	220	History of Arch.	2	141
Arch.	227	History of Arch.	2	141	Arch.	228	History of Arch.	2	141	Arch.	238	Working Dwg. and Specifications	3	142
Arch.	236	Building Materials and Construction	3	142	Arch.	237	Working Draw. & Specifications	3	142				18	
			19					19						
					Senior Year									
C. E.	431	Reinforced Con- crete Theory	3	145	C. E.	432	Reinforced Con- crete Theory	3	145	C. E.	433	Reinforced Con- crete Theory	3	145
C. E.	442	Structures	4	145	C. E.	434	Structures	3	145	M. E.	436	Heating and Ventilation	3	156
M. E.	331	M. E. Equipment	3	154	M. E.	435	Heating and Ventilation	3	156	Econ.	233	Principles	3	76
Econ.	321	History of Arch.	2	141	Econ.	232	Principles	3	76	Arch.	414	Estimating	1	142
		One or more ap- proved Electives	2 to 4	76	Arch.	411	Business Practice	1	141	Arch.	326	Bldg. Sanitation	2	142
			17		Arch.	322	History of Arch.	2	141	Arch.	412	Business Practice	1	142
							One or more ap- proved Electives	2 to 4		Arch.	323	History of Arch.	2	141
								17				One or more ap- proved Electives	2 to 4	17

CIVIL ENGINEERING

Fall Term			Winter Term			Spring Term		
			Freshman Year					
			See page 129					
			Sophomore Year					
Subject	Hours	Page	Subject	Term Hours	Page	Subject	Term Hours	Page
Math. 2321	Analytical Geom. 3	110	Math. 2322	Calculus 3	110	Math. 2323	Calculus 3	110
*Eng. 2310	Lit. and Comp. 3	89	Eng. 2311	Lit. and Comp. 3	89	Eng. 2312	Tech. Writing 3	89
C. E. 241	Plane Surveying 4	143	C. E. 242	Plane Surveying 4	143	C. E. 243	Plane Surveying 4	143
Phys. 241	Soph. Eng. Phys. 4	119	Phys. 242	Soph. Eng. Phys. 4	119	Phys. 243	Soph. Eng. Phys. 4	119
Geol. 332	Engineering Geol. 3	96	Geol. 333	Engineering Geol. 3	96	E. Dwg. 231	Descriptive Geom. 3	149
P. T. 201	Phys. Training 1	115	P. T. 202	Phys. Training 1	115	P. T. 203	Phys. Training 1	115
	18			18			18	
			Junior Year					
C. E. 331	Applied Mechanics 3	144	C. E. 332	Applied Mechanics 3	144	C. E. 333	Applied Mechanics 3	144
Math. 3311	Advanced Calculus 3	110	Math. 3312	Advanced Calculus 3	110	Math. 3313	Diff. Equation 3	110
M. E. 331	Heat Engineering 3	154	M. E. 338	Heat Engineering 3	155	M. E. 339	Heat Engineering 3	155
C. E. 335	Highway Eng. 3	145	C. E. 336	Highway Eng. 3	145	C. E. 337	Highway Eng. 3	145
C. E. 334	Surveying 3	144	C. E. 338	Structures 3	144	C. E. 339	Structures 3	144
Speech 131	Principles 3	123	C. E. 315	Graphics 1	144	C. E. 316	Graphics 1	144
	18		C. E. 314	Highway Lab. 1	144	C. E. 313	Concrete Lab. 1	143
				17		C. E. 312	Materials Lab. 1	143
			Senior Year					
C. E. 431	Concrete 3	145	C. E. 432	Concrete 3	145	C. E. 433	Concrete 3	145
C. E. 442	Structures 4	145	C. E. 434	Structures 3	145	C. E. 430	Materials 3	144
E. E. 337	Elements 3	147	C. E. 412	Hydraulic Lab. 1	144	Gov. 320	Bus. Law 2	96
C. E. 439	Hydraulics 3	145	E. E. 338	Elements 3	147	Econ. 233	Principles 3	76
Econ. 231	Principles 3	76	E. E. 326	Laboratory 2	146	Elective A	See list below 3	
Elective A	See list below 3		Econ. 232	Principles 3	76	Elective	2	
	19		Elective A	See list below 3		Elective	16	
				18				
Elective A for Senior Year. Choose one continuous course of the following:								
Bact. 331	Gen. Bacteriology 3	71	Bact. 332	Gen. Bacteriology 3	71	Bact. 333	Gen. Bacteriology 3	71
C. E. 4311	Highway Eng. 3	145	C. E. 4312	Highway Eng. 3	145	C. E. 4313	Highway Eng. 3	145
Foreign Language	3		Foreign Language	3		Foreign Language	3	

*Or English 231-2-3.

GEOLOGICAL ENGINEERING

TEXAS TECHNOLOGICAL COLLEGE

32

Fall Term

Winter Term

Spring Term

Freshman Year
See page 129
Sophomore Year

Subject	Term Hours	Page
Chem. 141	Elementary 4	72
Phys. 241	Soph. Eng. Phys. 4	119
Geol. 231	Detrm. Mineralogy 3	95
Math. 2321	Analytic Geometry 3	110
*Eng. 2310	Lit. and Comp. 3	89
P. T. 201	Phys. Training 1	115
		18

Subject	Term Hours	Page
Chem. 142	Elementary 4	72
Phys. 242	Soph. Eng. Phys. 4	119
Geol. 232	Detrm. Mineralogy 3	95
Math. 2322	Calculus 3	110
*Eng. 2311	Lit. and Comp. 3	89
P. T. 202	Phys. Training 1	115
		18

Summer

!Geol. 290	Field Geol.	9
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Junior Year

C. E. 241	Plane Survey 4	143
Geol. 334	Optical Min. 3	96
Geol. 337	Invert. Pale'tology 3	97
Math. 3311	Calculus 3	110
C. E. 331	Applied Mech. 3	144
*Geol. 311	Geol. of Texas 1	96
		17

C. E. 242	Plane Survey 4	143
Geol. 335	Optical Min. 3	96
Geol. 338	Invert. Pale'tology 3	97
E. Dwg. 231	Descrip. Geom. 3	149
C. E. 332	Applied Mech. 3	144
Geol. 312	Geol. of Texas 1	96
C. E. 312	Materials Lab. 1	143
		18

Senior Year

Geol. 431	Adv. Geol. 3	97
Geol. 434	Ore Deposits 3	97
Econ. 231	Principles 3	76
C. E. 334	Surveying 3	144
Geol. 437	Advanced Paleon. 3	97
Elective		3
		18

Geol. 432	Adv. Geol. 3	97
Geol. 435	Petroleum Geol. 3	97
Econ. 232	Principles 3	76
Speech 131	Principles 3	123
Geol. 438	Advanced Paleon. 3	97
Elective		3
		18

Subject	Term Hours	Page
Chem. 143	Elementary 4	72
Phys. 243	Soph. Eng. Phys. 4	119
Geol. 233	Elemen. Eco. Geol. 3	95
Math. 2323	Calculus 3	110
*Eng. 2312	Technical Writing 3	89
P. T. 203	Phys. Training 1	115
		18

C. E. 243	Plane Survey 4	143
Geol. 336	Optical Min. 3	96
Geol. 339	Invert. Pale'tology 3	97
Geol. 330	Geologic Mapping 3	96
C. E. 333	Applied Mech. 3	144
Geol. 313	Geol. of Texas 1	96
C. E. 313	Cement Lab. 1	143
		18

Geol. 433	Adv. Geol. 3	97
Geol. 436	Petroleum Geol. 3	97
Econ. 233	Principles 3	76
Gov. 320	Business Law 2	99
Geol. 439	Advanced Paleon. 3	97
Elective		3
		17

*Or English 231, 232 and 233.
!May be taken as senior elective.

ELECTRICAL ENGINEERING

Fall Term			Winter Term			Spring Term		
			Freshman Year					
			See page 129					
			Sophomore Year					
Subject		Term Hours	Subject		Term Hours	Subject		Term Hours
*Eng. 2310	Lit. and Comp.	3	*Eng. 2311	Lit. and Comp.	3	*Eng. 2312	Technical Writing	3
Phys. 241	Soph. Eng. Phys.	4	Phys. 242	Soph. Eng. Phys.	4	Phys. 243	Soph. Eng. Phys.	4
Math. 2321	Analytical Geom.	3	Math. 2322	Calculus	3	Math. 2323	Calculus	3
C. E. 230	Surveying	3	Speech 131	Principles	3	Chem. 339	Power Plant	3
E. Dwg. 231	Descriptive Geom.	3	E. Dwg. 232	Machine Dwg.	3	M. E. 221	Problems	2
M. E. 211	Pattern Shop	1	M. E. 212	Pattern Shop	1	E. E. 231	Principles	3
P. T. 201	Physical Training	1	P. T. 202	Phys. Training	1	P. T. 203	Phys. Training	1
		18			18			19
			Junior Year					
E. E. 331	Principles	3	E. E. 332	Principles	3	E. E. 333	Principles	3
E. E. 321	Laboratory	2	E. E. 322	Laboratory	2	E. E. 323	Laboratory	2
C. E. 331	Applied Mechanics	3	C. E. 332	Applied Mechanics	3	C. E. 333	Applied Mechanics	3
M. E. 334	Heat Engineering	3	M. E. 335	Heat Engineering	3	M. E. 336	Heat Engineering	3
Math. 3311	Adv. Calculus	3	Math. 3312	Adv. Calculus	3	Math. 3313	Diff. Equations	3
C. E. 400	Hydraulics	3	M. E. 328	Laboratory	2	M. E. 329	Laboratory	2
M. E. 311	Machine Shop	1	M. E. 312	Machine Shop	1	M. E. 313	Machine Shop	1
		18			17			17
			Senior Year					
E. E. 431	A. S. Machines	3	E. E. 432	A. C. Machines	3	E. E. 433	A. C. Machines	3
E. E. 421	A. C. Laboratory	2	E. E. 422	A. C. Laboratory	2	E. E. 423	A. C. Laboratory	2
E. E. 434	Applications	3	E. E. 435	Applications	3	E. E. 436	Transmission	3
Econ. 231	Principles	3	Econ. 232	Principles	3	Econ. 233	Principles	3
Phys. 331	Elec. Measurements	3	Phys. 332	Elec. Measurements	3	Gov. 320	Bus. Law	2
M. E. 427	Dynamics	2	E. E. 410	Seminar	1	C. E. 312	Materials Lab.	1
Elective		3	Elective		3	Elective		3
		19			18			17

*Or English 231, 232 and 233.

MECHANICAL ENGINEERING

134

TEXAS TECHNOLOGICAL COLLEGE

Fall Term			Winter Term			Spring Term		
			Freshman Year					
			See page 129					
			Sophomore Year					
Subject	Term Hours	Page	Subject	Term Hours	Page	Subject	Term Hours	Page
*Eng. 2310	Lit. and Comp. 3	89	*Eng. 2311	Lit. and Comp. 3	89	*Eng. 2312	Technical Writing 3	89
Phys. 241	Soph. Eng. Phys. 4	119	Phys. 242	Soph. Eng. Phys. 4	119	Phys. 243	Soph. Eng. Phys. 4	119
Math. 2321	Analytic Geom. 3	110	Math. 2322	Calculus 3	110	Math. 2323	Calculus 3	110
Speech 131	Principles 3	123	M. E. 221	Problems 2	152	M. E. 222	Mechanism 3	152
E. Dwg. 231	Descrip. Geom. 3	149	E. Dwg. 232	Machine Drawing 3	149	C. E. 230	Surveying 3	143
M. E. 225	Pattern Shop 2	153	M. E. 226	Fdy. and Forge 2	153	M. E. 227	Machine Shop 2	153
P. T. 201	Phys. Training 1	115	P. T. 202	Phys. Training 1	115	P. T. 203	Phys. Training 1	115
	19			18			18	
			Junior Year					
M. F. 331	M. E. Equipment 3	154	M. E. 332	Thermodynamics 3	155	M. E. 333	Thermodynamics 3	155
M. F. 321	Mech. Measurem'ts 2	154	C. E. 412	Hydraulic Lab. 1	144	M. E. 322	Thermo. Lab. 2	154
M. F. 315	Machine Shop 1	153	M. E. 316	Shop Projects 1	153	M. E. 317	Shop Projects 1	153
C. E. 331	Applied Mechanics 3	144	C. E. 332	Applied Mechanics 3	144	C. E. 333	Applied Mechanics 3	144
C. E. 439	Hydraulics 3	145	M. E. 434	Industrial Engr. 3	156	M. E. 439	Metallurgy 3	156
Math. 3311	Adv. Calculus 3	110	Math. 3312	Adv. Calculus 3	110	Eco. 233	Introduction 3	78
Econ. 231	Introduction 3	78	Econ. 232	Introduction 3	78	Gov. 320	Business Law 2	99
	18		C. E. 312	Materials Lab. 1	143		17	
			Senior Year					
M. F. 431	Power Plants 3	156	M. E. 432	Power Plants 3	156	M. E. 423	Gas Engines Lab. 2	155
M. F. 421	Power Plant Lab. 2	155	M. E. 422	Power Plant Lab. 2	155	M. E. 4323	Design 3	157
M. E. 4321	Design 3	157	M. E. 4322	Design 3	157	E. E. 336	Elements 3	146
E. E. 334	Elements 3	146	E. E. 335	Elements 3	146	E. E. 312	Laboratory 1	146
M. E. 427	Dynamics 2	156	E. E. 311	Laboratory 1	146	M. E. 412	Seminar 1	155
!Elective	6		M. E. 411	Seminar 1	155	Elective	6	
	19		Elective	6			18	
				19				

*See Page 152 for statement of elective requirements.
*Or English 231, 232 and 233.

MECHANICAL ENGINEERING
(Chemical Engineering Option)

Fall Term				Winter Term				Senior Year			
				Freshman Year							
				See page 129							
				Sophomore Year							
Subject		Term Hours	Page	Subject		Term Hours	Page	Subject		Term Hours	Page
*Eng. 2310	Lit. and Comp.	3	89	*Eng. 2311	Lit. and Comp.	3	89	*Eng. 2312	Technical Writing	3	89
Phys. 241	Soph. Eng. Phys.	4	119	Phys. 242	Soph. Eng. Phys.	4	119	Phys. 243	Soph. Eng. Phys.	4	119
Math. 2321	Analytic Geom.	3	110	Math. 2322	Calculus	3	110	Math. 2323	Calculus	3	110
Chem. 234	Adv. Inorganic	3	73	Chem. 238	Analytical Chem.	3	73	Chem. 239	Analytical Chem.	3	73
Chem. 237	Analytical Chem.	3	73	Chem. 235	Adv. Inorganic	3	7	Chem. 236	Adv. Inorganic	3	73
P. T. 201	Phys. Training	1	115	Speech 131	Principles	3	123	P. T. 203	Phys. Training	1	115
		17		P. T. 202	Phys. Training	1	115			17	
						20					
				Junior Year							
Chem. 343	Organic Chemistry	4	73	Chem. 344	Organic Chemistry	4	75	Chem. 345	Organic Chemistry	4	75
Chem. 441	Physical Chem.	4	75	Chem. 442	Physical Chemistry	4	75	Chem. 443	Physical Chemistry	4	75
C. E. 331	Applied Mechanics	3	144	C. E. 332	Applied Mechanics	3	144	C. E. 333	Applied Mechanics	3	144
Econ. 231	or For. Language	3	76	Econ. 232	or For. Language	3	76	Econ. 233	or For. Language	3	76
Math. 3311	Advanced Calculus	3	110	Math. 3312	Advanced Calculus	3	110	Gov. 320	Commercial Law	2	99
Chem. 310	Chem. Eng. Calc.	1	73	Chem. 311	Chem. Eng. Calc.	1	73	M. E. 430	Metallurgy	3	156
		18				18				19	
				Senior Year							
E. E. 334	Elements	3	146	E. E. 335	Elements	3	146	E. E. 336	Elements	3	146
M. E. 331	M. E. Equipment	3	154	E. E. 311	Laboratory	1	146	E. E. 312	Laboratory	1	146
Chem. 312	Adv. Ind.	1	74	Chem. 313	Adv. Ind.	1	74	Chem. 314	Adv. Ind.	1	74
Chem. 321	Industrial Chem.	2	74	Chem. 322	Industrial Chem.	2	74	Chem. 323	Industrial Chem.	2	74
Chem. 434	Prin. of Chem. Eng.	3	75	Chem. 435	Prin. of Chem. Eng.	3	75	Chem. 436	Prin. of Chem. Eng.	3	75
E. Dwg. 232	Machine Drawing	3	149	M. E. 332	Thermodynamics	3	155	M. E. 333	Thermodynamics	3	155
Electives		3		M. E. 328	Heat Engr. Lab.	2	154	M. E. 329	Heat Engr. Lab.	2	154
		18		E. Dwg. 421	Chem. Plant Des.	2	149	E. Dwg. 422	Chem. Plant. Des.	2	149
				Elective		3				17	
						20					

*Or English E231, E232 and E233.

TEXTILE ENGINEERING

Fall Term				Winter Term				Spring Term			
				Freshman Year							
				See page 129							
				Sophomore Year							
Subject		Term Hours	Page	Subject		Term Hours	Page	Subject		Term Hours	Page
C. E.	230	Surveying	3	*Eng.	2311	Lit. and Comp.	3	*Eng.	2312	Technical Writing	3
*Eng.	2310	Lit. and Comp.	3	Math.	2322	Calculus	3	Speech	131	Principles	3
Math.	2321	Analytic Geom.	3	M. E.	221	Problems	2	Math.	2323	Calculus	3
Phys.	241	Soph. Eng. Phys.	4	Phys.	242	Soph. Eng. Phys.	4	M. E.	220	Mach. Shop	2
T. E.	227	Yarn Mfg.	2	E. Dwg.	232	Machine Drawing	3	Phys.	243	Soph. Eng. Phys.	4
P. T.	201	Phys. Training	1	T. E.	228	Yarn Mfg.	2	T. E.	229	Fabric Design and Mfg.	2
		16		P. T.	202	Phys. Training	1	P. T.	203	Phys. Training	1
						18				19	
				Junior Year							
C. E.	331	Applied Mechanics	3	C. E.	332	Applied Mechanics	3	C. E.	333	Applied Mechanics	3
Chem.	343	Organic Chemistry	4	Chem.	344	Organic Chemistry	4	Chem.	345	Organic Chemistry	4
E. E.	334	Elem. of Elec. Eng.	3	E. E.	324	Elec. Engr. Lab.	2	E. E.	325	Elec. Engr. Lab.	2
T. E.	331	Yarn Manufacture	3	E. E.	335	Elem. of Elec. Eng.	3	E. E.	336	Elem. of Elec. Eng.	3
T. E.	324	Fabric Design and Mfg.	2	T. E.	332	Yarn Manufacture	3	T. E.	333	Yarn Manufacture	3
		159		T. E.	325	Fabric Des. & Mfg.	2	T. E.	326	Fabric Design and Mfg.	2
T. E.	327	Dyeing & Finishing	2	T. E.	328	Dyeing & Finishing	3	T. E.	329	Dyeing & Finishing	2
		17				19				19	
				Senior Year							
Econ.	231	Dynamics	2	Econ.	232	Economics	3	Econ.	233	Economics	3
M. E.	427	Economics	3	M. E.	318	Mech. Engr. Lab.	1	Gov.	320	Commercial Law	2
M. F.	331	Mech. Eng. Equip.	3	M. E.	335	Heat Engineering	3	M. E.	319	Mech. Engr. Lab.	1
T. E.	434	Dyeing & Finishing	3	M. E.	434	Industrial Engr.	3	M. E.	336	Heat Engineering	3
T. E.	444	Yarn Manufacture	4	T. E.	435	Dyeing and Finish	3	T. E.	436	Dyeing and Finish	3
T. E.	437	Fabric Design and Mfg.	3	T. E.	445	Yarn Manufacture	4	T. E.	446	Yarn Manufacture	4
		159		T. E.	438	Fabric Design and Mfg.	3	T. E.	439	Fabric Design and Mfg.	3
		18				20				19	

*Or English 231, 232 and 233.

DEPARTMENT OF ARCHITECTURE

Professor Kleinschmidt. Associate Professor Shelton.

The curriculum in Architectural Engineering is designed primarily for the student who desires to specialize in the constructional side of the building profession.

The wide and varied field in Architectural Engineering includes the superintending of building construction, general contracting, estimating of cost for constructional projects, and the designing of the structural members of steel, timber, and concrete. The student is therefore given a ground work in mathematics and applied mechanics, and engineering courses in structural design, heating and ventilation, heat engines and some work in testing materials, surveying, and the chemistry of engineering materials.

Although the Architectural Engineer specializes in the engineering aspects of architecture, the nature of his work is such that it is necessary for him to be well grounded in the underlying principles of art and architectural design. He must be prepared for practicing in association with one specializing more particularly in design, for intelligent and sympathetic collaboration with architects and builders. The course leads to a degree of Bachelor of Science in Architectural Engineering and requires normally four years for its completion.

For those who wish to confine themselves more to the aesthetic side of the building profession, courses in design, freehand drawing and history may be taken in substitution for constructional courses.

ARCHITECTURAL DESIGN

The course in Architectural Design begins with instruction in Architectural drawing, wash rendering, lettering and elements of Architectural Design. After this preliminary work is completed the student is given at stated intervals long and short problems in which the conditions are governed by a definite program. The student is expected to solve and work out his solution of the problem in his own way under individual criticism, thereby developing the creative faculties of the individual.

Throughout the entire course, guidance is given in the matter of principles of good design and sound construction. Sketch problems of short duration are assigned from time to time in order to increase facility and rapidity of expression.

131. *Shades and Shadows*. 9 laboratory hours.

Prerequisite: Engineering Drawing 231.

Exercises in conventional shades and shadows of common geometrical solids, solids of revolution, and simple architectural members.

132. *Perspective*. 9 laboratory hours.

Prerequisite: Architecture 131. 9 laboratory hours.

The theory of perspective as applied to common geometrical solids, and to problems from architectural practice.

- 133-4-5. *Elements of Architecture*. 9 laboratory hours.
(Formerly Architecture 231-2-3.)

Architectural drawing, lettering, and wash rendering in India ink and monotone; elements of architectural design, walls, doors, windows, colonnades, arcades, mouldings, vaults, etc.

Fee: \$4.00.

- 234-5, 246. *Architectural Design, Grade I*. 9 laboratory hours in Fall and Winter terms; 12 hours in Spring term.

(Formerly Architecture 421-2-3.)

Prerequisite: Architecture 133-4-5.

Long and short problems under individual criticism dealing in general with the elements of plan and elevation. Sketch problems dealing with composition.

Fee: \$4.00.

- 361-2, 373. *Architectural Design, Grade II*. 18 laboratory hours in Fall and Winter terms; 21 hours in Spring term.

Prerequisite: Architecture 234-5, 246.

Long and short problems, under individual criticism, dealing with simple architectural composition. Sketch problems dealing with large compositions or decorative detail.

Fee: \$4.00.

- 429, 431-2. *Interior Decorative Design*. 6 laboratory hours in Fall term; 9 hours in Winter and Spring terms.

Prerequisite: Architecture 234-5, 246, 224-5, 313, or approval of instructor.

Problems done under individual criticism dealing with the design and decorative treatment of furniture and accessories of interiors. Special attention is given to period design. Designed primarily for juniors and seniors.

Fee: \$4.00.

- 491-2-3. *Architectural Design, Grade III*. 27 laboratory hours.

Prerequisite: Architecture 361-2, 373.

Long, short and sketch problems under individual criticism dealing with more complex kinds of architectural composition, particularly with subjects involving special character and a decorative and imaginative interest.

Fee: \$4.00.

Drawing and Painting

The aim of the instruction in Freehand Drawing and in Painting is to teach accurate observation of form, proportions, light and shade,

color, and their artistic representation and interpretation, as a matter of general education and as part of a more specific training in pictorial or decorative art, or in architecture.

Students begin drawing in charcoal from simple objects which involve the accurate representation of form in light and shade; simple decorative natural and architectural forms are next drawn, after which portions of the figures, the hand, foot, head, etc., are drawn from plaster casts. The satisfactory completion of these courses is followed with the drawing from the living model.

The course in Painting in water color from still life and from nature is required of all architectural students, but cannot be taken without first completing Object Drawing 121-2-3 and Pencil Rendering and Sketching 221. Advanced students may elect other media, such as oil, pastel, etc.

The Course of modeling in clay aims to develop a sense of plastic design and give appreciation of architectural sculpture. Some of the finest examples of architectural ornament and sculpture are copied in facsimile to develop skill in modeling technique and to familiarize the student with the style.

121-2-3. *Object Drawing*. 6 laboratory hours.

The drawing in charcoal of simple geometric objects; studies from fragments of antique architectural ornament.

Fee: \$4.00.

220. *Pencil Rendering and Sketching*. 6 laboratory hours.

Prerequisite: Architecture 121-2-3.

The drawing of architectural ornaments, architectural fragments, and pencil sketches from nature.

Fee: \$1.50.

224-5. *Water Color*. 6 laboratory hours.

Prerequisite: Architecture 220 or approval of instructor.

Exercises in the handling of the medium and of the translation of color; theory of color.

Fee: \$3.00.

226. *Pen and Ink Rendering*. 6 laboratory hours.

Prerequisite: Architecture 224-5.

Students not registered in architecture should have equivalent of 6 term hours in Freehand Drawing before electing this course.

Studies from plaster casts, still life, and nature.

Fee: \$1.50.

327. *Still Life Drawing*. 6 laboratory hours.

Prerequisite: Architecture 224-5.

Drawing in charcoal from decorative forms, portions of the human figure and from full-length plaster casts.

Fee: \$1.50.

328-9. *Life Drawing*. 6 laboratory hours.

Prerequisite: Architecture 327.

Drawing from the living model in charcoal.

Fee: \$3.00.

421-2-3. *Clay Modeling*. 6 laboratory hours.

Prerequisite: Architecture 324-5 or approval of instructor.

The making of clay models, plaster casts of simple decorative fragments and anatomical forms; construction of relief maps.

Fee: \$4.00.

424-5. *Life Drawing*. 6 Laboratory hours.

Prerequisite: Architecture 328-9.

A continuation of Life Drawing, Architecture 328-9.

Fee: \$3.00.

433-4-5. *Advanced Water Color*. 9 laboratory hours.

Prerequisite: Architecture 224-5.

Painting done mostly in water color and tempera. Non-architectural students may elect to use oil or pastel. Studies from still life and nature.

Fee: \$4.00.

History of Architecture, Painting and Sculpture

In the history of architecture the technical and artistic development of the art of building from the earliest times to the present is traced and profusely illustrated by means of the stereopticon, books, and photographs. The student is required to study the outlines of general history concurrent with architectural history, so that he may have an intelligent idea of the causes and influences which helped to mold the various modes of building. A thorough knowledge of the great architectural styles is insisted upon and in order to accomplish this a careful study is made of the important examples of each style. The student thus gains an appreciation of the finest achievements of his art.

Each student is required to spend a certain amount of time each week in research in the library, making sketches or plans, sections, elevations, and decorative motives or ornament.

There is an intimate connection of architecture with the allied arts of sculpture and painting; therefore the history of these subjects is given in a course of lectures with the aid of the stereopticon and photographs.

227-8-9. *History of Architecture*. 2 class hours.

Formerly Architecture 211-2-3, and A. E. 413-5-6.

A technical history of architecture from the dawn of civilization to the end of the Greek Period; the Roman Empire; early Christian and Byzantine Periods; the Romanesque and Gothic.

Fee: \$4.00.

313. *History of Ornament and Furniture*. 2 class hours.

Prerequisite: Architecture 321-2.

Illustrated lectures on the various styles of ornament and furniture from the ancient to modern times and its relation to interior design. Library research making sketches of decorative ornament and typical styles in furniture.

Fee: \$1.50.

320. *History of Early Civilizations and Art*. 3 class hours.

Prerequisite: Architecture 227-8-9, or Architecture 330-1.

A course of illustrated lectures that deal with the origins of art and early civilizations. Library research in Anthropology and Archaeology.

Fee: \$1.50.

321-2-3. *History of Architecture*.

Prerequisite: Architecture 227-8-9.

A technical study of the architecture of the Italian Renaissance. Italian, French, Spanish, English, and German Renaissance, and of modern times.

324-5. *History of Sculpture*. 3 class hours.

Prerequisite: Architecture 320, 321.

Illustrated lectures on the development of sculpture from the Egyptian to the present day.

Fee: \$3.00.

330-1. *General Course in the History of Architecture*. 3 class hours.

Designed to give to students seeking a liberal cultural education a survey of the development of the art of building. The Temples, Cathedrals, Palaces, and other characteristic monuments of the Ancient, Mediaeval, Renaissance and Modern Styles.

The course is open to all students in the College but cannot be counted towards graduation in the Department of Architecture.

For students desiring a more intensive study of the technical and

historical development of architecture, courses in Architecture 124-5-6 and 225-6-7 are recommended.

Fee: \$3.00.

426-7-8. *History of Painting*. 3 class hours.

Prerequisite: Architecture 324-5.

Illustrated lectures dealing with the development of painting from earliest times to present day. Primarily a cultural course that aims to give the student an intimate knowledge of the various styles of painting and of the great masterpieces of the world.

Fee: \$4.00.

Building Construction and Equipment

236. *Building Materials and Construction*. 3 class hours.

(Formerly Architecture 417-8-9.)

Prerequisite: Architecture 133-4-5.

An introduction to the properties and uses of the materials of construction; plumbing, heating, and lighting systems; occasional visits to buildings under construction.

237-8. *Working Drawings and Specifications*. 9 laboratory hours.

(Formerly Architecture 221-8-3.)

Prerequisite: Architecture 236.

Preparation of working drawings and specifications for suburban houses; drawing complete details for buildings, heating, plumbing and structural problems.

Fee: \$2.00.

326. *Building Sanitation*. 2 class hours.

Prerequisite: Junior standing in Architectural Engineering.

The location and orientation of buildings; lighting, ventilation, water supply plumbing, sewage and refuse disposal.

411-2. *Business Practice*. 1 class hour.

Prerequisite: Senior standing in Architectural Engineering.

Office organization, ethics, professional relations.

414. *Estimating*. 1 class hour.

Prerequisite: Senior standing in Architectural Engineering.

Principles of the quantity survey; cost analysis.

DEPARTMENT OF CIVIL ENGINEERING

Professor Murdough. Associate Professor Adams.

Assistant Professor McRee.

Civil Engineering includes a number of branches, each resting on a relatively compact body of principles. They may be classified as:

(1) *Surveying and Geodesy*—which deals with the measurement

and delineation of portions of the earth's surface and objects on it.

(2) *Railroad Engineering*—which deals with the location, construction, and some phases of the maintenance and operation of railroads.

(3) *Highway Engineering*—which deals with the location, construction, and maintenance of highways and pavements.

(4) *Hydraulic Engineering*—which deals with the use and control of water as a source of power, and as a necessity of life and convenience to mankind. In some of its phases, the practice of hydraulic engineering demands a knowledge of electrical and mechanical engineering.

(5) *Sanitary Engineering*—which deals with problems pertaining to the protection and preservation of the public health.

(6) *Structural Engineering*—which deals with the design and construction of fixed structures and their foundations. A profession closely allied to this branch is Architectural Engineering.

The course in Civil Engineering offered by the Texas Technological College aims to give thorough instruction in the fundamentals of each of these branches.

230. *Elementary Surveying*. 1 class hour, 6 laboratory hours.

Prerequisite: Mathematics 1310.

The use of the compass, transit, tape, and level.

Fee: \$1.00; deposit: \$2.00.

241-2-3. *Plane Surveying*. 4 class and laboratory periods.

Prerequisite: Mathematics 1310.

The use and adjustment of surveying instruments; making plane surveys with transit and tape; running profiles and cross sections with the level; making computations from field notes; the mathematics of curves as applied to the location of railroads and highways, with field practice; earthworks, mass diagram.

Fee: \$1.00 per term; deposit: \$2.00.

312. *Materials Laboratory*. 3 laboratory hours.

Prerequisite: Registration in Civil Engineering 333.

Standard tests and reports on steel, iron, and wood specimens.

Fee: \$1.50; deposit: \$2.00.

313. *Concrete Laboratory*. 3 laboratory hours.

Prerequisite: Junior Engineering standing.

Study of the physical properties of cement, mortar, and concrete.

Fee: \$1.50; deposit: \$2.00.

314. *Highway Laboratory*. 3 laboratory hours.

(Formerly Civil Engineering 413.)

Prerequisite: Civil Engineering 335.

Standard laboratory tests on road building materials.

Fee: \$1.50; deposit: \$2.00.

315-6. *Graphics*. 3 laboratory hours.

Prerequisite: Registration in Civil Engineering 338-9.

Drawing room practice on principles taught in Civil Engineering 338-9.

331-2-3. *Applied Mechanics*. 3 class hours.

Prerequisite: Mathematics 2323, Physics 144-5.

The study and application of the principles of statics and kinetics; the physical properties of materials, the stresses and strains in bodies subject to tension, compression and shear; the common beam theory; distribution of normal and shearing stresses; equation of the elastic curve; the theory of torsion; stresses due to combined bending and axial loads.

334. *Surveying*. 1 class hour, 6 laboratory hours.

Prerequisite: Civil Engineering 241-2-3.

Surveying by stadia, use of plane table, triangulation, astronomical determination of azimuth, latitude and time.

Fee: \$1.50; deposit: \$2.00.

335-6-7. *Highway Engineering*. 3 class hours.

Prerequisite: Registration in Civil Engineering 331.

Study of the fundamentals of highway location, design, construction, maintenance, finance and transport.

338-9. *Structures*. 3 class hours.

(Formerly Civil Engineering 342-3.)

Prerequisite: Civil Engineering 331.

A course including an exhaustive study of curves of moment and shear; construction and use of influence lines and tables, stresses in framed structures by analytical and graphical methods, and the standard methods of determining stresses due to moving load systems.

412. *Hydraulic Laboratory*. 3 laboratory hours.

Prerequisite: Civil Engineering 439.

A laboratory study of principles taught in Civil Engineering 439.

Fee: \$1.50; deposit: \$2.00.

420. *Highway Laboratory.*

Prerequisite: Registration in Civil Engineering 4313.

Laboratory study of highway materials for those electing Civil Engineering 4311-12-13.

Fee: \$1.50; deposit: \$2.00.

430. *Materials.* 3 class hours.

Prerequisite: Senior Engineering standing.

A lecture course designed to acquaint the student with the more common building materials, such as brick, stone, cement, concrete, wood, steel.

431-2-3. *Reinforced Concrete Theory.* 3 class hours.

(Civil Engineering 432 was formerly Civil Engineering 443.)

Prerequisite: Civil Engineering 331-2-3.

The study and application of the theory of reinforced concrete design.

442, 434. *Structures.* Class and laboratory.

Prerequisite: Civil Engineering 338-9.

Design and detailing structures of wood and steel.

439. *Hydraulics.* 3 class hours.

Prerequisite: Civil Engineering 331.

Study of the principles of hydrostatics and hydrodynamics as applied to engineering problems.

4311-12-13. *Highway Engineering.*

Prerequisite: Civil Engineering 335-6-7.

Study of highway administration, finance, design, estimates and specifications.

DEPARTMENT OF ELECTRICAL ENGINEERING

Professor Miller. Associate Professor Young. Assistant Professor Helwig.

The course in Electrical Engineering aims to give a thorough and comprehensive training in the fundamental principles of electricity and magnetism, which experience has proved to be necessary for the proper development of the electrical engineering student.

The instruction in these principles includes consideration of the theory, operation and design of circuits, generators, motors, converters, control devices, transmission lines and distribution systems.

Special emphasis is placed upon the student's ability to reason logically, apply mathematics, and speak and write clear, concise English. In order to prepare the student for his professional courses the first

two years are devoted to a study of mathematics, English, physics, chemistry, drawing and shop practice.

No sharp divisions can be made between the various branches of engineering. Therefore the student is given thorough courses in the fundamentals of chemical, civil, and mechanical engineering in addition to the work in electrical engineering.

In the Electrical Engineering course, the theory is taught in the classroom and then applied in the laboratory by practical tests.

231. *Principles of Electrical Engineering.* 3 class hours.

Prerequisite: Physics 241; Mathematics 2322.

A course of recitations and problems on the fundamental principles of the electric, magnetic and dielectric currents.

311-2. *Electrical Engineering Laboratory.* 3 laboratory hours.

Prerequisite: Registration in Electrical Engineering 335.

A laboratory testing course to accompany Electrical Engineering 334-5-6.

Fee: \$3.00.

321-2-3. *Electrical Engineering Laboratory.* 3 laboratory hours.

Prerequisite: Registration in Electrical Engineering 331.

A laboratory course to accompany Electrical Engineering 331-2-3.

Fee: \$4.00.

324-5. *Electrical Engineering Laboratory.* 3 laboratory hours.

Prerequisite: Registration in Electrical Engineering 335.

Identical with Electrical Engineering 311-2, except an outside report is required.

Fee: \$3.00.

326. *Electrical Engineering Laboratory.* Laboratory and report.

Prerequisite: Registration in Electrical Engineering 338.

A laboratory course of standard tests of direct and alternating current electrical apparatus to accompany Electrical Engineering 337-8.

Fee: \$1.50.

331-2-3. *Principles of Electrical Engineering.* 3 class hours.

Prerequisite: Electrical Engineering 231.

Recitations and problems in the fundamental theory, operating characteristics and application of direct current machinery; alternating current circuits are studied in 333.

334-5-6. *Elements of Electrical Engineering.* 3 class hours.

Prerequisite: Physics 243 and Mathematics 2323.

An elementary course of recitations and problems dealing with the

theory and principles of electrical circuits and machinery for students not seeking a degree in Electrical Engineering.

337-8. *Elements of Electrical Engineering*. 3 class hours.

Prerequisite: Physics 243 and Mathematics 2323.

A brief course dealing with the principles of direct and alternating current circuits and machinery. For students of Civil Engineering.

410. *Electrical Engineering Seminar*. 1 class hour.

Prerequisite: Electrical Engineering 432.

A study and discussion of current events in the field of electrical engineering.

421-2-3. *Electrical Engineering Laboratory*. 6 laboratory hours.

Prerequisite: Registration in Electrical Engineering 431.

A laboratory course to accompany Electrical Engineering 431-2-3.

Fee: \$4.00.

431-2-3. *Alternating Current Machinery*. 3 class hours.

Prerequisite: Electrical Engineering 333.

A course of recitations and problems on the construction, theory of operation, and characteristics of the principal types of alternating current machinery.

434-5-6. *Electrical Applications and Transmission*. 3 class hours.

Prerequisite: Registration in Electrical Engineering 431.

A course devoted to problems and considerations involved in the transaction and utilization of electrical energy.

437. *Principles of Electrical Communication*. 3 class hours.

Prerequisite: Senior standing.

A brief course dealing with the principal system of telephony and the fundamental principles involved in wire and radio telephony.

438. *Illumination*. 3 class hours.

Prerequisite: Senior standing.

Lectures and discussions dealing with production, measurement and utilization of light.

DEPARTMENT OF ENGINEERING DRAWING

Professor Svensen. Assistant Professor Boller. Instructors Perryman, Street. Assistants Speer, Moore.

The Department of Engineering Drawing provides fundamental courses in the graphic language as used in the study and practice of

the profession of engineering and for the development of the powers of visualization. In addition, certain other courses of educational and practical values are offered.

Approved drawing equipment is required for all courses. A list of equipment giving quality and acceptable brands will be sent upon request. Address the Department of Engineering Drawing and mention number of course.

124. *Agricultural Drawing*. 3 two-hour periods for lecture and laboratory.

Drawing equipment required. Cost about \$15.00.

A study of orthographic projection, lettering, graphic charts, free-hand sketching, and the reading of drawings related to agriculture and agricultural engineering.

Designed especially for students of agriculture.

Fall term.

133. *Home Economics Drawing*. 1 lecture hour, 6 laboratory hours.

Drawing equipment required. Cost about \$8.00.

The use of the instruments, geometry in design, orthographic projections, lettering, mechanical pictorial methods, the meaning of "scale," building features, floor plans, room layouts, etc. A fundamental course planned especially for Home Economics students.

Fall term.

134. *Engineering Drawing*. 3 class hours, 6 laboratory hours.

For students without entrance credit in Solid Geometry. Fall term only.

Approved drawing equipment required. Cost about \$25.

This course covers the same subjects as Engineering Drawing 135 but includes the necessary foundation in engineering geometry.

Student is prepared to enter Engineering Drawing 136.

Fee: 50 cents.

135-6-7. *Engineering Drawing*. 2 class hours, 4 laboratory hours.

Prerequisite: Solid Geometry.

Approved drawing equipment required. Cost about \$25.

The essentials of drafting, including the use of instruments, lettering, orthographic projections, sections, intersections, developments, isometric and oblique drawing, and elementary working drawings.

Fee: 50 cents for each term.

211. *Technical Sketching and Lettering*. 3 lecture and laboratory hours.

Prerequisite: Engineering Drawing 135 or equivalent.

An intensive course in orthographic and pictorial sketching and engineering lettering.

231. *Descriptive Geometry*. 3 two-hour lecture and laboratory periods.

Prerequisites: Engineering Drawing 137 or equivalent and Solid Geometry. Solid Geometry may be taken concurrently.

A course in the theory of engineering drawing which provides training in exact thinking; point, line, and plane problems, tangent planes, intersection and developments, and curved and warped surfaces.

Fall and Spring terms.

Fee: \$1.00.

232. *Machine Drawing*. 1 lecture hour, 6 laboratory hours.

Prerequisite: Engineering Drawing 137.

The application of the graphic language to engineering purposes, engineering sketching, theory of dimensioning, conventional practice, detail and assembly drawings, machine details.

Winter term.

Fee: 50 cents.

321. *Lettering*. 1 lecture hour, 4 laboratory hours.

A course in the art of lettering, including the history and development of the alphabet, the technique of lettering, and applications.

- 331-2. *Mechanical Drawing for Teachers*. 1 lecture hour. Drawing room 6 hours.

Drawing equipment required.

A study of mechanical drawing for vocational and high schools. Plan and content of courses, methods of teaching, literature of the subject, present status of mechanical drawing. Mechanical drawing as a cultural subject and as a practical subject. Its place in the curriculum. Primarily intended for high school teachers and those preparing to teach.

- 421-2. *Chemical Plant Design*. Drawing room 6 hours.

Prerequisite: Machine Drawing 232.

A course designed to acquaint the student with chemical engineering equipment and its arrangement in various types of chemical plants. Drawings, calculations and sketches are used to solve assigned problems.

DEPARTMENT OF GEOLOGICAL ENGINEERING

Professor Patton. Associate Professors Stainbrook, Robinson.
Assistant Professor Sidwell.

The Department of Geological Engineering offers training designed to prepare students for practical work in geology, especially in the application of geology to the exploration for petroleum. The course leads to the degree of B. S. in Geological Engineering.

For a more extended description of the courses listed below see announcements under the Department of Geology, School of Liberal Arts.

141-2-3. *General Geology*. 3 class hours, 3 laboratory hours.

The first fundamental course in geology covering the general principles of the science.

Fee: \$4.00.

231-2. *Mineralogy*. 1 class hour, 6 laboratory hours.

Prerequisite: Preceded or accompanied by Chemistry 141-2-3.

A study of the principles of crystallography, the properties of minerals and the methods of their identification by means of blowpipe analysis.

Fee: \$3.00.

233. *Introductory Economic Geology*. 3 class hours.

Prerequisite: Geology 231-2.

An introductory course in economic geology.

330. *Geologic Mapping*. 1 class hour, 6 laboratory hours.

Prerequisite: Geology 141-2-3, and Civil Engineering 230 or Civil Engineering 241-2-3.

Training in special instrument methods used by the field geologist.

Fee: \$1.50.

290. *Field Geology*. Six weeks in the field.

Prerequisite: Geology 141-2-3.

An intensive course in the methods of geologic investigations given in camps in the field. The party will visit as many different places of geologic interest as the time allotted to the course will permit.

311-2-3. *Geology of Texas*. 1 class hour.

Prerequisite: Geology 141.

An intensive course in the Geology of the State of Texas.

334-5-6. *Petrology*. 1 class hour, 6 laboratory hours.

Prerequisite: Geology 231-2-3.

A study of rocks, rock making minerals and methods of optical mineralogy.

Fee: \$4.00. Deposit: \$5.00.

337-8-9. *Invertebrate Paleontology*. 1 class hour, 6 laboratory hours.

Prerequisite: Geology 141-2-3.

A study of the principal "index fossils" of North America and the application of the principles of paleontology to stratigraphy.

Fee: \$4.00.

431-2-3. *Advanced Physical, Structural and Historical Geology*. 2 class hours, 3 laboratory hours.

Prerequisite: Geology 141-2-3, 231-2-3, 337-8-9.

A course in general advanced geology.

434. *Economic Geology*. (Exclusive of Petroleum) 3 lecture hours.

Prerequisite: Geology 141-2-3, 231-2-3, 234-5-6.

An advanced course in economic geology devoted to problems relating to deposits of metallic minerals.

435-6. *Geology of Petroleum*. 3 class hours.

Prerequisite: Geology 434.

Devoted to special problems of the petroleum industry.

437-8-9. *Advanced Paleontology*. 1 class hour, 6 laboratory hours.

Prerequisite: Geology 337-8-9.

Especial attention to micro-paleontology.

Fee: \$4.00.

441-2-3.

Prerequisite: Thirty-six term hours in Geology and Senior or Graduate standing.

Course and credit to depend upon preparation and needs of student. Registration only with approval of the head of the department.

Fee: \$4.00.

DEPARTMENT OF MECHANICAL ENGINEERING

Professor Tuve. Assistant Professor Farris. Instructors Hardgrave and Long. Mechanician Bancook. Assistant Miller.

Mechanical Engineering is that branch of engineering which deals with the generation, transmission and utilization of power, the design, construction, operation and testing of machinery, and the management of shops and factories. The course of study in Mechanical Engineering is designed to prepare the student for entrance into these fields.

The curriculum includes, in addition to the fundamental sciences and the professional courses, a thorough training in the use of English and foundation courses in economics. Early in his course the student

is given sufficient training in the mechanic arts to make him familiar with the use of hand and machine tools and with the methods employed in the machine shop, the pattern shop and foundry, and the forging and heat treating departments. In the professional subjects, by means of lectures, recitations, drawing room and laboratory work, typical mechanical engineering problems are presented and their practical solution by the application of physics, chemistry and mathematics, is indicated.

The student is allowed some choice of courses in his senior year, but at least half of the senior electives must be chosen from the following: M. E. 4311-12-13, M. E. 4314-15-16, M. E. 4317-18-19, M. E. 435-6, M. E. 413-14, M. E. 323-4-5, Chem. 339.

CHEMICAL ENGINEERING OPTION

Students desiring to study chemical engineering will register in the Department of Mechanical Engineering. (See page 157 for details.)

211-2. *Pattern Shop*. 3 laboratory hours.

Methods and principles of pattern making, including materials and tools used, lathe work, draft, shrinkage, glue joints, cores and core boxes. kinds of patterns and how they are constructed and used.

For Electrical Engineers.

Fee: \$3.00.

220. *Machine Shop*. 6 laboratory hours.
(Formerly Mechanical Engineering 420.)

Elementary machine shop work, including bench work in chipping, filing and fitting; fundamental operations on the lathe, consisting of straight turning and facing, chuck and center work, screw cutting, boring and fitting, filing and polishing. Elementary practice on drill press and shaper.

For textile engineers.

Fee: \$3.00.

221. *Mechanical Engineering Problems*. 1 class hour, 2 laboratory hours.

Prerequisite: Physics 144-5.

Application of physics and mathematics to the solution of simple problems in the fields of mechanism, power engineering and heat engineering. Slide rule practice.

222. *Mechanism*. 2 class hours, 3 laboratory hours.

Prerequisite: Drawing 123 or 132.

Fundamentals of mechanism. Transmission of motion by friction drives, gearing, and flexible connectors. Gear trains, cams, linkages. Graphical solution of problems.

225-6-7. Shop Practice. 6 laboratory hours.

(a) Pattern shop. Methods and principles of pattern making, including materials and tools used, lathe work, draft, shrinkage, glue joints, cores and core boxes. Kinds of patterns and how they are constructed and used.

(b) Foundry. Floor and machine molding in iron and non-ferrous metals. Foundry materials. Core making and baking.

(c) Forging and heat treating. Elementary forge practice. Welding and equipment. Hardening, tempering, annealing, case hardening.

(d) Machine shop. Bench work in chipping and filing. Fundamental operations on the lathe, drill press, shaper, milling machine and grinder. Straight and taper turning, boring, fitting, thread cutting, gear calculations and manufacture.

For Mechanical Engineers.

Fee: \$4.00.

311-2-3. Machine Shop. 3 laboratory hours.

Prerequisite: Mechanical Engineering 212.

Machine shop work, including bench work in chipping, filing and fitting. Fundamental operations on lathe, consisting of turning, facing, threading, fitting, boring. Operations on drill press and shaper, milling and grinding machines. Gear calculations and manufacture.

For electrical engineers.

Fee: \$4.00.

315. Machine Shop. 3 laboratory hours.

Prerequisite: Mechanical Engineering 227.

Advanced machine work. A continuation of Mechanical Engineering 227 with more advanced practice on shop equipment. Use of jigs and fixtures.

For mechanical engineers.

Fee: \$1.50.

316-17. Shop Projects. 3 laboratory hours.

Prerequisite: Mechanical Engineering 315

Various shop methods and their influence on the design of machine parts. Practice in all operations in the manufacture of certain machine parts, making patterns, molding, casting, machining and assembling.

Fee: \$3.00.

318-9. Heat Engineering Laboratory. 3 laboratory hours.

Prerequisite: Registration in Mechanical Engineering 335.

Mechanical engineering measurements. Heat transmission and heat

transfer equipment. Tests of steam power plant equipment, air machinery and internal combustion engines.

For textile engineers.

Fee: \$3.00.

321. *Mechanical Measurements*. 6 laboratory hours

Prerequisite: Registration in Mechanical Engineering 331.

Methods and instruments used in the common mechanical engineering measurements of temperature, pressure, speed, weight, volume, area, power. Methods of calibration and use of thermometers and pyrometers, gages and manometers, tachometers, planimeters, friction brakes, and indicators. Efficiency tests of simple machines.

For mechanical engineers.

Fee: \$1.50.

322. *Thermodynamics Laboratory*. 6 laboratory hours.

Prerequisite: Mechanical Engineering 332.

Experimental study of the properties of steam, flow of liquids, the indicator diagram, heat transmission and heat transfer equipment, steam-air mixtures.

For mechanical engineers.

Fee: \$1.50.

323-4-5. *Pattern Making and Foundry*. 6 laboratory hours.

Prerequisite: Mechanical Engineering 212 or 225.

An advanced course in pattern making and foundry work. Construction and use of core boxes, match plates and special patterns.

Fee: \$4.00.

328-9. *Heat Engineering Laboratory*. 6 laboratory hours.

Prerequisite: Registration in Mechanical Engineering 335.

Mechanical engineering measurements. Heat transmission and heat transfer equipment. Tests of steam power plant equipment, air machinery and internal combustion engines.

For electrical engineers and chemical engineers.

Fee: \$3.00.

331. *Mechanical Engineering Equipment*.

Prerequisite: Physics 145.

A general study of heat-power machines, forming a practical background for the study of thermodynamics. Types of steam engines and turbines, condensers and pumps, boilers and their auxiliaries, internal combustion engines, air compressors and refrigerating machines.

332-3. *Thermodynamics.*

Mechanical Engineering 331.

A study of the thermodynamic principles governing the action of steam engines and turbines, internal combustion engines, air compressors, and refrigerating machines. Properties of air, steam, ammonia and other heat media. Heat transformation into work, laws of gases, flow of fluids. Ideal and actual heat engine cycles. Supplemented with an extensive set of engineering problems.

For mechanical engineers and chemical engineers.

335-6. *Heat Engineering.*

Prerequisite: Mechanical Engineering 331.

Fuels and combustion. Elementary thermodynamics of steam engines, turbines and internal combustion engines. Selection of equipment for highest commercial economy.

For electrical engineers and textile engineers.

338. *Heat Engineering.*

Prerequisite: Mechanical Engineering 331.

Fuels and combustion. Elementary thermodynamics. Steam engines and turbines, internal combustion engines. Selection of power equipment.

For civil engineers.

339. *Heat Engineering.* 2 class hours, 3 laboratory hours.

A continuation of Mechanical Engineering 338, supplemented by a laboratory course in mechanical engineering measurements and power plant testing.

For civil engineers.

Fee: \$1.50.

411-2. *Seminar.*

Prerequisite: Senior standing.

Studies of industrial, engineering and scientific subjects presented by members of the class for informal discussion.

413-4. *Advanced Machine Shop Practice.* 3 laboratory hours.

Prerequisite: Mechanical Engineering 313 or 315.

Special topics incidental to machine shop practices; advanced work (including tool room practice), on lathes, grinder, miller and automatic machines.

(This work may be modified to suit individual requirements.)

421-2-3. *Power Plant Laboratory.* 6 laboratory hours.

Prerequisite: Registration in Mechanical Engineering 431.

Tests of steam power plant units: Boilers, engines, turbines, fans,

compressors, pumps. Tests of internal combustion engines using gas, gasoline, kerosine, alcohol and heavy oil fuels. Experimental problems. Special attention to analysis of data and writing of reports.

Fee: \$4.00.

427. *Dynamics.*

Prerequisite: Civil Engineering 331-2-3.

A study of the principles of kinematics and kinetics.

431-2. *Heat-Power Engineering.*

Prerequisite: Mechanical Engineering 333 or 336.

Theory of combustion and its application to the boiler furnace and the internal combustion engine. Steam power plant equipment. Internal combustion engines. Instruments and control apparatus. Advanced thermodynamics; heat balance calculations.

434. *Industrial Engineering.*

Prerequisite: Junior standing.

A study of the modern industrial system and of the application of scientific knowledge to the management of industry. Standardization, time studies and job analysis, wage payment systems, personnel relations. Plant layout, planning and scheduling inspection. Safety engineering.

435-6. *Mechanical Equipment of Buildings.* 2 class hours, 3 laboratory hours.

Prerequisite: Senior standing.

Heat losses from buildings. Hot air, hot water and steam heating systems. Ventilating and air conditioning. Fire protection, vacuum cleaning and miscellaneous equipment.

439. *Metallurgy.*

Prerequisite: Chemistry 143, Physics 243.

The manufacture of iron and steel. Blast furnaces, puddling, cementation, crucible process, Bessemer process, open hearth process, iron and steel founding, malleable cast iron. Heat treatment and metallography. Alloy and tool steels. Non-ferrous alloys.

4311-12-13. *Industrial Engineering.*

Prerequisite: Mechanical Engineering 434.

Class and laboratory work dealing with production methods, functions of the planning department, and of the inspection department. Materials handling and plant transportation. Location, arrangement and construction of plants. Safety and accident prevention. Production control. Industrial economics.

4314-15-16. *Heat-Power Engineering.*

Prerequisite: Mechanical Engineering 333 or 336.

Advanced thermodynamics. Study of the comprehensive problem

of supplying heat, ventilation, power, refrigeration and related service to a typical industrial plant, public institution or large building. Power plant economics and plant management. Central station problems.

4317-18-19. *Internal Combustion Engines and their Applications.*

Prerequisite: Mechanical Engineering 333 or 336.

Mechanical and thermodynamic problems involved in the application of the internal combustion engine to automobiles, trucks, tractors, aeroplanes, locomotives and stationary power plants.

4321-2-3. *Mechanical Engineering Design.* 1 class hour, 6 laboratory hours.

(Formerly Mechanical Engineering 326, 327, 424, 425.)

Prerequisite: Mechanical Engineering 222, Engineering Drawing 232, Civil Engineering 333.

A study of the various parts which go to make up a machine, and the application of mechanics in the determining of their proper size. Preparation of working drawings, bills of material and cost estimates. A definite problem in the design of a machine, prime mover or plant layout, to be selected in accordance with the work pursued in the M. E. elective.

CHEMICAL ENGINEERING OPTION

Professor Read.

Students desiring to study chemical engineering will register in the Department of Mechanical Engineering. Certain courses in chemistry and plant design will be substituted for some of the prescribed work in the Mechanical Engineering curriculum, thus preparing the students for employment in the chemical phases of industrial and manufacturing fields.

This curriculum leads to the degree of Bachelor of Science in Mechanical Engineering (Chemical Engineering option). The curriculum is so arranged that only one more year of study is required to earn the degree of Bachelor of Science in Chemical Engineering in institutions granting such degree.

DEPARTMENT OF TEXTILE ENGINEERING

Professor Brandt. Associate Professor Nelson. Instructor Heard.

The Department of Textile Engineering offers excellent opportunities to the students who intend entering the textile industry. With its modern equipment and well arranged classrooms and laboratories, ample opportunity is afforded for both theoretical and practical instruction.

A broad education is given as a foundation for the work in **Textile Engineering**. The course includes, in addition to the purely textile subjects, English, Mathematics, Physics, Chemistry, Machine Drawing, Surveying, Steam Engines and Boilers, Electricity, Industrial Engineering, etc.

The textile work embraces lectures, calculations, testing, investigation and experimenting with the various machines; practical operation of the machines by the students, sketching of the complicated parts, the principles of fabric structure, and the elements of woven design. The structure and cost of fabrics are ascertained by work in **cloth analysis**.

The weaving department is equipped with the most modern machinery for the production of almost any type of cotton fabric; upon these machines the students do practical work in the manufacture of many standard fabrics. A wide latitude is given the student in producing fabrics to illustrate different color combinations and weave effects of his own.

The principles of latch needle knitting applicable to the **knitting** of hose, half-hose, and mufflers; the construction and operation of circular and flat latch needle machines are studied.

In the laboratory work which precedes the practical dyeing on the machines, the students study the action of the alkalies and acids on the various textile fibers and the application of the various classes of dyes to silk, wool, cotton and artificial silk. Full details of the processes employed in bleaching cotton yarn and cloth are followed, including water purification by chemical and mechanical means with special reference to bleaching and finishing.

A testing laboratory is equipped with the most approved apparatus for testing the products in the various stages of manufacture into yarns, fabrics, etc. Cottons, laps, slivers, rovings, yarns and fabrics are tested for determining the moisture content, the effect of the different speeds, settings, twists, temperatures and humidities on the appearance, elasticity and strength of yarns and fabrics.

Complete systems of heating, lighting and humidifying found in the modernly equipped mill are installed here.

121-2-3. *General Textiles.*

Open to all students. .

A non-technical course covering the design, manufacture, **dyeing** and finishing of fabrics. Intended to be of value to all students, since all will have ample occasion to make practical use of the subject **matter** taught.

227-8. *Yarn Manufacture*. 6 laboratory hours.

(Formerly T. E. 224-5.)

Prerequisite: Sophomore standing.

An introductory course of both theory and practice leading to the more practical work of the following year.

229. *Fabric Design and Manufacture*. 6 laboratory hours.

(Formerly T. E. 226.)

Prerequisite: Textile Engineering 227-8.

A course in elementary fabric design and practical weaving on plain power looms.

324-5-6. *Fabric Design, Analysis and Manufacture*. 6 laboratory hours.

(Formerly T. E. 341-2.)

Prerequisite: Textile Engineering 229.

Advanced designing, fabric analysis and calculations of constructions and cost. Preparation of warks and actual weaving.

327-8-9. *Dyeing and Finishing*.

Formerly T. E. 343.

Prerequisite: Registration in Chemistry 343-4-5.

A course covering the chemistry and principles of the bleaching, dyeing and finishing of fabrics.

331-2-3. *Yarn Manufacture*. 2 class hours, 3 laboratory hours.

Prerequisite: Textile Engineering 227-8.

Practical operation and a study of the construction of machines used for manufacturing cotton and woolen yarn.

434-5-6. *Dyeing and Finishing*. 9 laboratory hours.

Prerequisite: Textile Engineering 327-8-9.

The practical application of the principles taught under T. E. 327-8-9.

Breakage Fee: \$5.00.

437-8-9. *Fabric Design, Analysis and Manufacture*, 2 class hours, 3 laboratory hours.

(Formerly T. E. 441-2.)

Prerequisite: Textile Engineering 324-5-6.

The designing and practice in weaving lenos; marquisesettes; broadcloths; shirtings; velvets; jacquard designs in dress goods, damask and blankets. The preparation of fabrics for the market.

444-5-6. *Yarn Manufacture, Knitting and Testing*. 2 class hours, 6 laboratory hours.

(Formerly T. E. 431-2-3 and 443.)

Prerequisites: Textile Engineering 331-2-3.

Continuation of manufacturing, knitting, testing and mill planning.

SCHOOL OF AGRICULTURE

ARTHUR H. LEIDIGH, DEAN

PURPOSE

The School of Agriculture of the Texas Technological College aims to afford its students a liberal education, including instruction in the scientific and technical subjects which are fundamental to the understanding of the agricultural industry.

Specialization in any one of several particular lines is offered in keeping with experience and good practice.

The purpose of the course of study outlined herewith is to meet the needs of those who desire to prepare themselves for service and life in some part of the agricultural organization of this country as a whole. Courses are accordingly offered for those who expect to operate farms or ranches, those who purpose to enter manufacturing, technical or scientific professions bearing directly on agriculture, and also for those who desire to live in and be a part of a community in which the basic industry is agriculture. In all these courses it is felt that sympathy with and understanding of agriculture subjects and problems are of value to the intelligent citizen.

A good education for one engaged in any of the various branches of agriculture necessitates that part of the cultural subjects of the usual college course be replaced by those which have a direct bearing on agriculture. The scientific and technical subjects studied are fundamental. In the latter years of the student's work, the scientific and agricultural subjects have both a more specific application to agriculture, and a more fundamental bearing on certain special lines of work which the student may desire to pursue as a life work.

BUILDINGS

The buildings of the School of Agriculture thus far completed consist of the Stock Judging Pavilion, the Dairy Barn, the first unit of the Greenhouse, and a small building used for offices and class rooms. These buildings are of permanent construction and so planned that they may be added to as the occasion may demand.

EQUIPMENT

The School of Agriculture maintains laboratories both in and out of doors. Approximately 700 acres of pasture land and 964 acres of cultivated lands and small pastures are available for laboratory purposes. In addition the campus of 320 acres is used for laboratory instruction in special branches of Horticulture. Extensive improvements have been made for the live stock and poultry and for the use of the Horticultural and Agronomy Departments.

SERVICE

Instruction in all of the subjects offered in the various courses is available to all students in the College, whether they major in Agriculture or in one of the other schools of the College.

To the end that the Agricultural equipment and facilities may serve the greatest number of people, the School of Agriculture conducts contests for vocational agricultural students and boys' club members, and also short courses and demonstrations of one or two days each.

FIELD FOR GRADUATES

There is a constant demand for men trained in specialized lines of agriculture as well as for men to enter professions wherein a basic agricultural education is required. Among the lines of work usually open to graduates are the following positions:

Farmers and farm managers; marketing agents, managers of co-operative associations; teachers in colleges, academies and high schools; extension experts in agricultural colleges, railroads and land companies; dairy and creamery experts or operators; government and experiment station lines of research work; horticultural experts; poultry experts; feed inspecting; county agents; assistants in seed houses; agricultural writing for farm journals; plant pathologists; entomologists trained in agriculture; landscape architects; agricultural engineers; farm machinery specialists; field men for livestock associations; livestock feeding experts; and feed salesmen.

TEACHERS' CERTIFICATES

Certificates valid in Texas and other states may be secured by students of the Texas Technological College. In the School of Agriculture part of the requirements are met by the curricula and part may be met by electives. In some cases extra courses may have to be taken. For complete information see *Department of Education and Psychology* in another part of this catalogue.

TRIPS AND JUDGING TEAMS

In recognition of the value of broader contacts and to secure a better conception of the agricultural industry, the School of Agriculture recommends and fosters trips of inspection and intercollegiate judging contests for advanced students, and offers every assistance to make such trips worth while. These trips are not required and the College does not pay the expenses of the students. In the case of judging teams, the staff members coach and train the teams outside of regular classes throughout the year to supplement class instruction.

INSTRUCTION BY CORRESPONDENCE

For college credit: A limited number of subjects in the agricultural curricula are open for full or partial credit by correspondence. The general management of such instruction is treated in detail in another part of this catalogue under the Department of Extension. In those

cases where the student may carry out the experiments and practice away from the College, the laboratory material and supplies are to be provided at the student's expense and can usually be secured from the department concerned. Such laboratory expenses are in addition to the correspondence fee. The examinations will be held at the College.

For non-college credit: Non-college credit instruction by correspondence is open to students irrespective of the prerequisites or laboratory requirements, provided it is clearly understood at the time of registration that credit towards a degree is not desired. Such instruction is specifically offered to a limited number of farmers and others who are seriously seeking knowledge in their calling but who do not desire to cover the entire list of subjects required for graduation. The general procedure for securing such instruction is the same as for the regular credit correspondence courses.

ADMISSION REQUIREMENTS

The requirements for admission to the School of Agriculture are essentially the same as those for admission to the other schools of the College. For details of these requirements, refer to "Entrance," on page ???.

The special requirements for admission to the School of Agriculture are as follows:

The fifteen high school units or their equivalent acceptable to meet the entrance requirements are:

1. English ----- 3 units
2. Mathematics:
 - Algebra ----- 1 unit
 - Plane Geometry ----- 1 unit

And ten units selected from the following:

3. Social Sciences, such as:
 - History, civics, economics, sociology, etc., two units if only one is selected in group four, but if two are selected in group four, then one unit from group three----- 2 or 1 units
4. Science, such as:
 - Botany, zoology, chemistry, physics, geology, general science, physiology, etc., two units if one only is selected in group three, but if two are selected in group three, then one unit in group four ----- 1 or 2 units
5. Any other standard units, but not more than four can be vocational subjects----- 1 unit

Total ----- 15 units

REQUIREMENTS FOR GRADUATION

The student in the School of Agriculture is required to follow a definite series of studies with certain electives. The elective requirements are left to the department in which the major is taken, subject to the approval of the Agriculture faculty.

Specialized courses of study are offered in Animal Husbandry, Agronomy, Horticulture, Agricultural Economics, and Dairy Manufactures. While the curricula as scheduled are believed to be sufficient to cover the needs of the average student, it is possible to combine various portions of the work of two or more of them so that an even more specialized preparation may be secured. Substitutions and combinations will be permitted only when there is good evidence that the student desiring such work is practically certain to follow the branch selected.

A candidate for a degree in Agriculture must have had at least six months' farm, dairy, or other experience in labor or management during the recent years of his life. A statement giving details regarding this experience must be filed in the dean's office previous to the first term of the candidate's senior year.

In accordance with an Act of the State Legislature all students of State supported educational institutions must pass a course in State and Federal Constitutions before they can receive a degree. This act goes into effect September 1, 1930. An appropriate course in this subject therefore must be passed by seniors before they can be given a degree.

Uniform Freshman and Sophomore Years

All Agriculture students pursue a uniform course of study in the first two college years. This is to allow the student to become familiar with the courses of instruction and to decide fully as to his qualifications before making election of specific majors. The uniform requirements accordingly include survey courses in the various departments of the School of Agriculture, a series of orientation lectures, and work in English, Chemistry, Biology, Economics, and Mathematics.

On petition to the dean of the School of Agriculture, other subjects than those in the uniform course for the first two years may be followed if a sufficiently good reason for such a procedure is shown. If other subject matter is thus introduced, it will not be substituted for a part of the uniform requirements, but may possibly be considered for a part of the elective credit permissible in the junior or senior years of the respective curriculum followed, provided it meets the qualifications for supervised electives.

DEGREES

The degree of Bachelor of Science in Agriculture will be conferred upon students who satisfactorily complete the prescribed courses in the School of Agriculture. The degree is given with majors in Agronomy, Animal Husbandry, Horticulture, Agricultural Economics, and Dairy Manufactures.

Regularly scheduled work for the degree of Master of Science is not offered at this time. In view of the additions in equipment and facilities being made from time to time, a certain amount of such work is possible in some of the departments, and correspondence concerning this subject will receive due consideration.

CURRICULA FOR STUDENTS IN AGRICULTURE
Uniform Course in Agriculture

	Term Hours		
	Fall	Winter	Spring
Freshman Year			
A. H. 134—Types, Market Classes and Breeds of Cattle & Sheep	3		
A. H. 135—Types, Market Classes and Breeds of Hogs & Horses		3	
A. H. 231—Farm Poultry			3
D. M. 131—Principles of Dairy Manufacturing	3		
Hort. 141—Principles of Plant Propagation		4	
Agron. 131—Fundamentals			3
Ag. Eco. 121—Personal Business			2
Bot. 131-2-3—General Botany	3	3	3
Math. 134-5-6—Agricultural Mathematics	3	3	3
English 131-2-3—Composition and Rhetoric	3	3	3
G. A. 1 1-3 1-2-3—Agricultural Lectures	1-3	1-3	1-3
M. T. or P. T. 101-2-3—Military Training or Physical Training	1	1	1
	16 1-3	17 1-3	18 1-3

Note: In sectionizing, part of the students will be assigned to Dairy Manufactures 131 or to Animal Husbandry 231 interchangeably. If necessary, Horticulture 141 or Agronomy 131 will be assigned interchangeably.

	Term Hours		
	Fall	Winter	Spring
Sophomore Year			
Eco. 231-2—Introduction to Economics	3	3	
Ag. Eco. 332—Principles of Agricultural Marketing			3
Zool. 234—Zoology		3	
Bact. 231—Bacteriology			3
Zool. 236—Introduction to Entomology	3		
Eng. 2313-14—Special Work on Correct Usage	3	3	
A. H. 232—Development of Breeds of Live Stock			3
D. M. 230—Farm Dairy	3		
Agron. 235—Soils		3	
Hort. 233—Vegetable Gardening			3
Chem. 141-2-3—Elementary General Chemistry	4	4	4
P. T. or M. T. 201-2-3—Physical Training or Military Training	1	1	1
	17	17	17

AGRICULTURAL ECONOMICS AND FARM MANAGEMENT MAJOR
For Freshman and Sophomore Year see Page 164

	Term Hours		
	Fall	Winter	Spring
Junior Year			
Ag. Eco. 333—Co-operative Marketing			3
Ag. Eco. 334 338—Agricultural Statistics	3	3	
Gen. 331-2—Principles of Genetics		3	3
Speech 131—Principles of Speech	3		
E. Dwg. 124—Agricultural Drawing	2		
Supervised Electives	8	10	10
	16	16	16
Senior Year			
Ag. Eco. 411-2-3—Agricultural Economics Seminar	1	1	1
Ag. Eco. 431—Land Economics	3		
Ag. Eco. 432—Farm Management		3	
Ag. Eco. 433—Agricultural Prices and Forecasting			3
G. A. 411—General Agricultural Lectures			1
Supervised Electives	12	12	12
	15	16	17

ELECTIVES

In addition to the major in Agricultural Economics, the student will consult with the head of the department and designate 15 or more hours in supervised electives in one of the following named groups: Agronomy, Animal Husbandry, Dairy Manufactures, Horticulture, Psychology and Business Administration, and in Education. Additional electives may be taken to complete the number of hours shown in the curriculum and to meet fully State requirements for graduation.

AGRONOMY MAJOR

For Freshman and Sophomore Year see Page 164

	Term Hours		
	Fall	Winter	Spring
Junior Year			
Agron. 331—Forage Crops	3		
Agron. 338—Soil Survey		3	
Agron. 333—Cotton and Other Fiber Crops	3		
Agron. 323—Cotton Classing and Grading		2	
Gen. 331-2—Principles of Genetics		3	3
A. H. 342—Livestock Feeding		4	
Ag. Eco. 334—Agricultural Statistics	3		
Gen. Ag. 330—Plant Diseases and Insects and Their Control			3
Speech 131—Principles of Speech			3
C. E. 230—Surveying	3		
Botany 233—Taxonomy			3
Supervised Electives		3	3
	15	15	15
Senior Year			
Agron. 431—Grain Crops	3		
Agron. 438—Advanced Crop Breeding and Imp.		3	
Agron. 434—Principles of Irrigation		3	
Agron. 435—Dry Farming	3		
Agron. 437—Pasture Management			3
Agron. 436—Soil Conservation and Terracing			3
Agron. 432—Advanced Crop Judging and Grading	3		
Ag. Eco. 432—Farm Management		3	
Agron. 411-2—Agronomy Seminar		1	1
Gen. Ag. 411—General Agricultural Lectures			1
Supervised Electives	6	6	9
	15	16	17

ELECTIVES

In addition to the major in Agronomy, the student will consult with the head of the department and designate 15 or more hours in supervised electives in one of the following named groups: Animal Husbandry, Agricultural Economics, Horticulture, Psychology and Business Administration, Chemistry, Education, and in Biology and Horticulture. Additional electives may be taken to complete the number of hours shown in the curriculum and to meet fully State requirements for graduation. Engineering Drawing 124 is advised as an elective.

ANIMAL HUSBANDRY MAJOR

For Freshman and Sophomore Year see Page 164

	Term Hours		
	Fall	Winter	Spring
Junior Year			
A. H. 341—Animal Nutrition			4
Vet. 331—Anatomy of Domestic Animals	3		
Vet. 332—Comparative Physiology		3	
Vet. 333—Livestock Diseases, Parasites and Sanitation			3
Gen. 331-2—Principles of Genetics		3	3
Agron. 331—Forage Crops	3		
Ag. Eco. 334—Agricultural Statistics	3		
Chem. 343-4—Organic Chemistry	4	4	
Speech 131—Principles of Speech			3
Supervised Electives	3	6	3
	16	16	16
Senior Year			
A. H. 411-2—A. H. Seminar		1	1
A. H. 431—Beef Production**	3		
A. H. 432—Horse Production	3		
A. H. 433—Sheep Production**		3	
A. H. 434—Swine Production**			3
A. H. 435—Dairy Production**			3
A. H. 437—Poultry Production**		3	
A. H. 436—Farm Meats**		3	
Ag. Eco. 432—Farm Management		3	
Agron. 437—Pasture Management			3
Gen. Agcl. 411—General Agricultural Lectures			1
Supervised Electives	9	3	6
	15	16	17

**One of these may be omitted each term and a supervised elective substituted.

ELECTIVES

In addition to the major in Animal Husbandry, the student will consult with the head of the department and designate 15 or more hours in supervised electives in one of the following named groups: Agronomy, Agronomy and Horticulture, Agricultural Economics, Horticulture, Dairy Manufactures, Chemistry, Psychology and Business Administration, and in Education. Additional electives may be taken to complete the number of hours shown in the curriculum and to meet fully the State requirements for graduation. Engineering Drawing 124 is advised as an elective.

DAIRY MANUFACTURES MAJOR
For Freshman and Sophomore Year see Page 164

	Term Hours		
	Fall	Winter	Spring
Junior Year			
D. M. 321—Judging Dairy Products			2
D. M. 331—Market Milk		3	
D. M. 333—Cheese Making	3		
D. M. 336—Dairy Bacteriology		3	
D. M. 337—Dairy Machinery			3
D. M. 339—Laboratory Control of Dairy Products			3
Chem. 343-4—Organic Chemistry	4	4	
Speech 131—Principles of Speech	3		
A. H. 341—Animal Nutrition			4
Supervised Electives	6	6	3
	16	16	15
Senior Year			
D. M. 411—Seminar	1		
D. M. 421-2—Dairy Technology	2	2	
D. M. 431—Dairy Products Merchandizing			3
D. M. 433-4—Butter Making	3	3	
D. M. 435—Dairy Inspection			3
D. M. 441-2—Ice Cream	4	4	
D. M. 443—Dairy Plant Management			4
Gen. Ag. 411—General Agriculture Lectures			1
Supervised Electives	6	6	6
	16	15	17

ELECTIVES

In addition to the major in Dairy Manufacture, the student will consult with the head of the department and designate 15 or more hours in supervised electives in one of the following named groups: Animal Husbandry and Genetics, Agricultural Economics, Psychology and Business Administration, and in Physics, Chemistry, Mathematics, and Mechanical Engineering. Additional electives may be taken to complete the number of hours shown in the curriculum and to meet fully State requirements for graduation. Engineering Drawing 124 is advised as an elective.

HORTICULTURE MAJOR

For Freshman and Sophomore Year see Page 164

	Term Hours		
	Fall	Winter	Spring
Junior Year			
Hort. 238—Floriculture		3	
Hort. 341—Orcharding	4		
Hort. 332—Pruning and Spraying		3	
Gen. Ag. 339—Plant Diseases and Insects and Their Control			3
C. E. 230—Elementary Surveying	3		
Gen. 331-2—Principles of Genetics		3	3
A. H. 342—Livestock Feeding		4	
Agron. 331—Forage Crops	3		
Speech 131—Principles of Speech			3
Ag. Eco. 334—Agricultural Statistics	3		
Supervised Electives	3	3	6
	16	16	15
Senior Year			
Hort. 411-2—Seminar		1	1
Hort. 435-6-7—Advanced Pomology	3	3	3
Hort. 449—Systematic Pomology	4		
Hort. 434—Citriculture			3
Hort. 331—Grapes and Small Fruits		3	
Hort. 420—Horticultural Field Trip		2	
Gen. Ag. 411—General Agricultural Lectures			1
Ag. Eco. 432—Farm Management		3	
Supervised Electives	9	4	9
	16	16	17

In addition to the major in Horticulture, the student will consult with the head of the department and designate 15 or more hours in supervised electives in one of the following named groups: Agronomy, Animal Husbandry, Agricultural Economics, Chemistry, Psychology and Business Administration, Education, and in Biology and Agronomy. Additional electives may be taken to complete the number of hours shown in the curriculum and to meet fully State requirements for graduation. Engineering Drawing 124 is advised as an elective.

DEPARTMENT OF AGRICULTURAL ECONOMICS AND FARM MANAGEMENT

Professor Ellsworth.

Agriculture today, through increasing competition and modern machinery, demands farmers with trained minds and practical experience. With a farming system producing more than can be marketed at a profit, young men who contemplate entering one of the many phases of agriculture are turning to the study of the business conditions underlying the industry. The quality and quantity of products demanded by the consumer, together with the time and place of such demand, must be studied and met in order to make an income from farming. The foregoing are some of the problems studied in Agricultural Economics.

The primary objective of the department is to train young men to return to the land as farmers and to enter the varied divisions of agricultural business, to increase their ability to enjoy life on the farm, and more intelligently to take their places as producers and consumers in the increasingly complicated life of America.

The second objective of the department is to train men to enter the commercial and industrial activities closely allied with farm life. Training is also given for positions in research work with the United States Department of Agriculture.

Students in the junior and senior years, after completing the standard first and second years in Agriculture, are given much latitude in electives, thus providing for the individual demands of the student.

A well-balanced program leading to a definite goal and fitting the needs of each particular individual will be developed with the student.

Students in other schools of the College are invited to elect work in the Department of Agricultural Economics, provided they meet the requirements.

Graduate work may be offered during the summer term to students qualified to do individual research.

121. *Personal Business.* 1 class hour, 3 laboratory hours.

A survey of phases of personal business and the application of the elementary principles of economics to the solution of problems of individual inventory, budgeting, record keeping, use of time and the relation of personal business to the daily life of the student, both in and out of school.

231. *Principles of Agricultural Economics.*

Prerequisite: Two terms of Economics.

The application of the principles and theories of economics to agri-

culture. The study of price changes and forecasting, and analysis of personal business. Emphasis upon the adjustment of agricultural production to consumer demand.

332. *Principles of Agricultural Marketing*. 2 class hours, 3 laboratory hours.

Prerequisite: Economics 231-2.

The principles of agricultural marketing. The economic fundamentals associated with the sale of farm products. The purchasing of farm supplies. Practice in the study of current changes in market conditions, consumer demand, price relationships, price forecasting.

333. *Co-operative Marketing*. 2 class hours, 3 laboratory hours.

Prerequisite: Agricultural Economics 332.

Development, importance, and fundamental principles underlying co-operative marketing organizations in the United States, and their application to local conditions. Pooling systems, membership contracts, and national and state laws affecting co-operative marketing.

334. *Agricultural Statistics*. 2 class hours, 3 laboratory hours.

Prerequisite: Agricultural Economics 332, Mathematics 9 hours.

A survey of the important sources of agricultural statistics. Principles involved in the collection, analysis, presentation, and interpretation of agricultural data. Practice in statistical methods, including sampling, tabulations, averages, dispersion, probability and error, index numbers, trends, cycles, and correlation.

Fee: \$1.50.

335. *Farm Records and Accounts*. 2 class hours, 3 laboratory hours.

Prerequisite: Agricultural Economics 332.

Application of principles of accounting to farm business. Formulation and interpretation of farm records, including single enterprise cost accounts, complete cost accounts, and farm inventories.

336. *Rural Life and Organization*.

Prerequisite: Agricultural Economics 332.

Principles and problems of community organization. The effect of modern means of communication upon farm life. Institutional life in the country. The economic and social bearings of shifts in population. The relation between town and country interests.

337. *Marketing Agricultural Products*. 2 class hours, 3 laboratory hours.

Prerequisite: Agricultural Economics 332.

Problems and practices involved in the marketing of cotton, wheat, beef, hogs, dairy and poultry products, as especially adapted to agricultural conditions of West Texas.

338-9. *Advanced Statistics*. 2 class hours, 3 laboratory hours.

Prerequisite: Agricultural Economics 334.

Practice in the use of methods and principles of statistics, with particular emphasis upon theory and application. Advised for preparation for positions with the United States Department of Agriculture, with Experiment Stations, and in other research.

Fee: \$1.50.

411-2-3. *Agricultural Economics Seminar*.

Prerequisite: Senior standing in Agricultural Economics.

A discussion of current problems in Agricultural Economics. Topics and assigned readings; reports and discussions.

431. *Land Economics*.

Prerequisite: Agricultural Economics 332 and 334.

Land as a factor of production; classification and utilization of land; land income, tenure, calculation, property rights, credit and taxation.

432. *Farm Management*. 2 class hours, 3 laboratory hours.

Prerequisite: Senior standing in Agriculture.

The organization and management of the individual farm; types and systems of farming; capital requirements; farm machinery and equipment; labor supply and distribution. Factors affecting farm profits, practice in taking farm inventories, and in making plans for reorganization.

433. *Agricultural Prices and Forecasting*. 2 class hours, 3 laboratory hours.

Prerequisite: Agricultural Economics 334.

The application of statistical methods to the refinement of agricultural prices and forecasting. Original research applied to one agricultural commodity of the student's choice. Sources and use of price and forecasting information.

434. *Farmer Movements in America*.

Prerequisite: Three terms of Agricultural Economics.

An analysis of the economic conditions and accomplishments of important farmer movements of the state and nation. Special study of the Grange, the Farmers' Union, the Farm Bureau, agricultural extension and vocational education.

435. *Farm Finance*.

Prerequisite: Three terms of Agricultural Economics.

Analysis of the credit needs of farmers, the sources of agricultural credits, economic principles affecting the use of credit, principles upon which credit is extended, cost of credit, description of institutions and agencies which extend credit to farmers.

438. *Agricultural Economics Problems.*

Prerequisite: Senior standing in Agricultural Economics.

Individual research following a definite plan approved by the department.

535. *Advanced Agricultural Economics.*

Prerequisite: Graduates only.

Study of Economic Theory as applied to agriculture. Economic principles underlying agricultural practices. Probability of forecasting changes in consumer demand and production.

536. *Advanced Farm Management.* 2 class hours, 3 laboratory hours.

Prerequisite: Graduates only.

Visits to farms of various types and qualities and analysis of the business and operation of farms visited.

DEPARTMENT OF AGRONOMY

Professor Leidigh. Associate Professor Bower.

The Department of Agronomy offers courses designed to provide instruction in cereal and forage crops production, crop inheritance, breeding and improvement, in pasture management, in soils, in soil fertility, soil survey, terracing, dry-land farming, and irrigation farming.

In addition to maintaining demonstration plots to illustrate farm operations and practice, a large variety of farm crops are available as examples of practically all the material that it is feasibly to grow in this region. Greenhouse space is also provided for problems and research work in crops and soils.

The classes in Agronomy are offered field trips as a part of their instruction, and since the College is located in a highly developed and productive region, these trips are of great assistance to the student.

AGRONOMY

131. *The Fundamentals of Crop Production.* 2 class hours, 3 laboratory hours.

Prerequisite: Horticulture 141 and Botany 131.

A survey of the importance and value of crops, their classification, distribution, production and use. Tillage and elementary soils.

Note: Students who have approached this subject in high school in Vocational Agriculture will not be required to repeat unnecessarily work already done.

Fee: \$1.50.

235. *Soils*. 3 class hours.
(Formerly Agronomy 335.)

Prerequisite: One year of Chemistry or registration in Chemistry 143 and Agronomy 131.

Origin, formation and geological relations of soil. Organic matter. Surface features and geological control of vegetation. Methods of tillage and crop adaptation. Drought resistance and general productiveness of soils. Factors that effect chemical and biological activity and the physical improvement of soils.

323. *Cotton Classing and Grading*. 1 class hour, 3 laboratory hours.
(Formerly Agronomy 223.)

The theory of uniformity in cotton marketing. The laws and practices in use. Causes of difference in appearance, quality, utility, damage, value. Practice in grading, classing and stapling.

Fee: \$1.50.

330. *Grasses*.
Prerequisite: 1 year of Botany and Horticulture 141.

The fundamentals of lawn, pasture, and greens production. A consideration of their culture, fertilization, utilization, watering and climatic adaptation.

Cannot be credited to students taking Agronomy 331.

331. *Forage Crops*. 2 class hours, 3 laboratory hours.
Prerequisite: Agronomy 131 and 1 year of Botany.

The production, harvesting, storage and use of forage crops, green manure and cover crops, together with a consideration of miscellaneous hay and pasture crops. The identification of seeds and grasses.

Fee: \$1.50.

332. *Cotton Production*. 2 class hours, 3 laboratory hours.
Prerequisite: Junior standing.

The origin, history, production, composition and uses of cotton. Improvement; cropping systems; the relative value of cotton grades and the factors that determine them. Practice in classing and stapling.

Course offered to Textile Engineering and to Liberal Arts students without the prerequisite for Agronomy 333.

Fee: \$1.50.

333. *Cotton and Other Fiber Crops*. 2 class hours, 3 laboratory hours.

Prerequisite: Agronomy 131, Botany 131-2-3.

Fee: \$1.50.

Culture and classification of cotton; improvement of varieties; diseases and insect pests of cotton. World cotton production.

Fee: \$1.50.

338. *Soil Survey*. 2 class hours, 3 laboratory hours.

Prerequisite: Engineering Drawing 124, Agronomy 235.

The soils of the United States and methods of mapping soil areas, with special attention to the study of West Texas soils in the field.

411-2. *Seminar*. 1 class hour, 2 discussion hours.

Prerequisite: Senior standing in Agronomy.

Assigned problems in reading with informal discussions, reports, and papers.

431. *Grain Crops*. 2 class hours, 3 laboratory hours.

Prerequisite: Agronomy 131 and Genetics 332.

The production, harvesting, storage, grading and use of grain crops. Advanced genetics, breeding and improvement. Commercial plant breeding and seed production.

Fee: \$1.50.

432. *Advanced Crop Judging and Grain Grading*. 1 class hour, 6 laboratory hours.

Prerequisite: Agronomy 331 and assignment in Agronomy 431.

The factors involved in determining the quality of seeds and grains. Practice in grading and competitive judging of seeds and grains.

Fee: \$1.50.

433. *Soil Fertility*. 2 class hours, 3 laboratory hours.

Prerequisite: Agronomy 235 and senior standing in Agronomy.

An advanced study of crop requirements and adaptation to climate and soil. The nature and sources of plant foods. Exhaustion of soils and increase of soil fertility. The liberation of mineral plant foods.

Fee: \$1.50.

434. *Irrigation and Drainage*. 3 class hours. Field trips.

Prerequisite: Agronomy 235 and senior standing.

Fundamental principles and practices of irrigation. Irrigation projects, and the irrigated home garden and orchard.

435. *Dry Land Farming*. 3 class hours. Field trips.

Prerequisite: Agronomy 235 and senior standing.

Principles of profitable farming under light rainfall conditions. The college equipment and local conditions offer opportunities for experimentation.

436. *Soil Conservation and Terracing*. 2 class hours, 3 laboratory hours.

Prerequisite. Engineering Drawing 124, Civil Engineering 230, and Agronomy 235.

Methods of maintaining the productive power of soils. Checking the causes of erosion. Prevention of run off.

437. *Pasture Management*. 3 class hours. Field trips.

Prerequisite: Agronomy 235, 331.

Ranching and general farming. Native forage plants. Injurious plants and their control. The carrying capacity of pastures. Pasture conservation. Range management.

438. *Advanced Crop Breeding and Improvement*.

Prerequisites: Genetics 332 and Agronomy 331, 333.

A continuation of the prerequisite subjects. Genetics research and practical crop plant improvement, particularly from the standpoint of forage plants and cotton.

439. *Agronomy Problems*.

Prerequisite: Senior standing in Agronomy.

A study of recent problems in the field of Agronomy. Lectures, research and papers.

AGRICULTURAL ENGINEERING

- 434-5. *Farm Machinery*. 2 class hours, 3 laboratory hours.

Prerequisite: Physics 244 or its equivalent.

The practical operation of farm machinery. Farm motors, gas engines, wind engines, electric motors, and equipment.

436. *Farm Structures*. 2 class hours, 3 laboratory hours.

Prerequisite: Drawing 124 or its equivalent.

Construction and repairs of farm improvements; ventilation; heating, lighting, sewage disposal.

GENERAL AGRICULTURE

- 1(1-3)1-2-3. *Agricultural Lectures*.

A survey of the field of Agriculture. Orientation lectures. One lecture a week by the dean and various faculty members.

Required of all freshmen students in Agriculture.

339. *Plant Diseases, Insects and their Control*.

A study of the most important fruit, vegetable and crop diseases, and insects, with emphasis on prevention and control.

411. *Agricultural Lectures.*

Prerequisite: Senior standing in the School of Agriculture.

Brief consideration of the broad fundamental relationship of farmers and their co-workers with each other and of agricultural communities with other communities.

AGRICULTURAL EDUCATION

331. *Rural Education.*

Practices, tendencies and improvements of rural schools. The relation of rural schools to rural life problems. An outline of lessons. Possibilities of materials. A course for students who expect to be rural teachers.

DEPARTMENT OF ANIMAL HUSBANDRY

Professor Stangel. Associate Professor Mowery. Assistant
Professor Harbaugh.

The Department of Animal Husbandry provides instruction designed to train students to select, breed, feed, manage and market farm and ranch animals and poultry. The live stock and poultry belonging to the department at present include the major breeds of beef cattle, two breeds of dairy cattle, three breeds of hogs, two breeds of horses, three breeds of sheep, and three breeds of poultry, all of which are maintained and used primarily for class instruction. More live stock is being added as state appropriations become available.

The equipment of the department includes a live stock judging pavilion; a well equipped, modern dairy barn; shelters for bulls, calves, dry cows and heifers; temporary shelters for beef cattle and sheep; a horse barn; portable houses for hogs; a concrete silo of one hundred and forty tons capacity; a forty-acre sheep plant, fenced and cross-fenced; a ten-acre poultry farm, fenced and cross-fenced, with housing facilities for 1,200 birds.

Laboratory equipment for instruction in veterinary science, poultry brooding and incubation, live stock feeding, and production, is also available.

ANIMAL HUSBANDRY

134. *Types, Market Classes, and Breeds of Cattle and Sheep.* 2 class hours, 4 laboratory hours.

(Formerly Animal Husbandry 131 and 121.)

Brief survey of cattle and sheep industries. Description and value of types. Classifications. Slaughtering, carcasses and packing house by-products. Marketing. Wools and wool growing. History and characteristics of breeds. Outstanding breeders and individuals. Breed or-

ganizations and publications. Scorecard and comparative judging.

Fee: \$1.50.

135. *Types, Market Classes, and Breeds of Hogs and Horses.* 2 class hours, 4 laboratory hours.

(Formerly Animal Husbandry 132.)

Brief survey of hog and horse industries. Types and classification. Hog slaughtering, carcasses and packing house by-products. Marketing. Horse anatomy. Market classes of mules. History and characteristics of breeds. Outstanding breeders and individuals. Breed organizations and publications. Scorecard and comparative judging.

Fee: \$1.50.

231. *Farm Poultry.* 2 class hours, 3 laboratory hours.

The poultry industry. Classes, breeds and varieties. Judging. Culling, breeding, incubating, brooding, feeding, housing, diseases and marketing.

Fee: \$1.50.

232. *Development of Breeds of Livestock.*

Prerequisite: Animal Husbandry 134, 135.

The development of the breeds of cattle, horses, sheep, and swine. Special emphasis upon the work of recent prominent breeders and the merit of individual animals.

321. *Advanced Dairy Cattle Judging.* 6 laboratory hours.

Prerequisite: Animal Husbandry 134, and junior standing.

Contrasting study and comparative judging of dairy breeds. Selection of dairy animals for breeding and showyard purposes. Inspection trips to farm herds and leading dairy shows.

322. *Incubation.* 1 class hour, 3 laboratory hours.

Prerequisite: Animal Husbandry 231.

Selection and care of eggs for hatching. Operating of incubator. Removing the hatch.

Fee: \$1.50.

323. *Brooding.* 1 class hour, 3 laboratory hours.

Prerequisite: Animal Husbandry 231.

Operation of a brooder for four weeks. Management and feeding of chicks until six weeks of age.

Fee: \$1.50.

331. *Advanced Live Stock Judging.* 9 laboratory hours.

Prerequisite: Animal Husbandry 232, and junior standing.

Contrasting study and comparative showyard judging of breeds of

beef cattle, horses, sheep and swine. Selection of breeding and market animals. Inspection trips to farm herds, flocks and leading live stock shows.

324. *Advanced Poultry Judging*. 6 laboratory hours.

(Formerly Animal Husbandry 333.)

Prerequisite: Animal Husbandry 231, and junior standing.

History and characteristics of the standard breeds and varieties of poultry. Scoring and judging of exhibition and utility fowls. Inspection trips to farm flocks and poultry shows.

341. *Animal Nutrition*. 3 class hours, 3 laboratory hours.

Prerequisite: Chemistry 344.

Chemical composition of plant and animal body. Digestion and metabolism. Digestibility, energy and manurial value of feeds. Feed requirements and calculating rations for maintenance, growth, fattening, milk and wool production, and work. Feeding standards. Study of various feeding stuffs. Practice in feeding of laboratory animals.

Fee: \$1.50.

342. *Livestock Feeding*. 3 class hours, 3 laboratory hours.

Prerequisite: One year of Chemistry.

A modification of course 341, together with a study of the practical feeding of beef and dairy cattle, hogs, horses and sheep.

Fee: \$1.50.

411-2. *Seminar*. 1 class hour.

Prerequisite: Senior standing in Animal Husbandry.

Assigned subjects. Review of recent investigations.

431. *Beef Production*. 2 class hours, 3 laboratory hours.

Prerequisite: Animal Husbandry 341, and Genetics 332.

Beef cattle situation. Breeding, feeding and marketing. Purebred herd and range management. Fitting for show and showing. Disease control.

Fee: \$1.50.

432. *Horse Production*. 2 class hours, 3 laboratory hours.

Prerequisite: Animal Husbandry 341, and Genetics 332.

Review of the horse and mule situation. Breeding, feeding, breaking and training, stabling, harness and harnessing, shoeing. Fitting for sale, showing. Caring for brood mare and foal. Caring for stallion and jack. Diseases and sanitation.

Fee: \$1.50.

433. *Sheep Production*. 2 class hours, 3 laboratory hours.

Prerequisite: Animal Husbandry 341, and Genetics 332.

Review of sheep situation. Adaptation of breeds. Breeding, feed-

ing, shearing and marketing. Farm flock and range management. Fitting for show and showing. Parasites and diseases. .

Fee: \$1.50.

434. *Swine Production*. 2 class hours, 3 laboratory hours.

Prerequisite: Animal Husbandry 341, and Genetics 332.

Review of hog situation. Breeding, feeding, housing, and marketing. Care and feeding of the breeding herd. Fitting for show and showing. Killing and curing products. Sanitation and disease control.

Fee: \$1.50.

435. *Dairy Production*. 2 class hours, 3 laboratory hours.

Prerequisite: Animal Husbandry 341, and Genetics 332.

Review of the dairy industry. Breeding; feeding for growth, maintenance, and milk; marketing. Dairy barn construction and sanitation. Advanced registry and herd records.

Fee: \$1.50.

436. *Farm Meats*. 1 class hour, 6 laboratory hours.

Prerequisite: Animal Husbandry 331, and Veterinary Science 331.

Study of cattle, hogs and sheep before slaughter. Special emphasis upon form, quality and condition as affecting dressing percentage and quality of carcass. Killing, dressing, cutting and curing.

Fee: \$1.50.

437. *Poultry Production*. 2 class hours, 3 laboratory hours.

Prerequisite: Animal Husbandry 231, Animal Husbandry 341, and Genetics 332.

Review of Poultry industry. Breeding, hatching, brooding, feeding for egg production and market, marketing and housing. Disease control, parasites and sanitation.

438. *Animal Genetics*. 2 class hours, 3 laboratory hours.

Prerequisite: Genetics 332.

A continuation of Genetics 331 and 332, from the standpoint of farm live stock, poultry and laboratory animals.

Fee: \$1.50.

439. *Research Problems in Animal Husbandry*. 3 class hours.

Prerequisite: Senior standing in Animal Husbandry.

A study of recent problems in the field of Animal Husbandry. Lectures and research. Recent literature.

Spring term only.

VETERINARY SCIENCE

331. *The Anatomy of Domestic Animals.* 2 class hours, 3 laboratory hours.

The skeletal, muscular, digestive, circulatory, respiratory, and reproductive organs of farm animals. Lectures, with demonstrations and laboratory.

Fee: \$1.50.

332. *Comparative Physiology.*

Prerequisite: Veterinary Science 331.

The physiology of the blood, lymph, circulatory, and respiratory systems, ductless glands, digestion, absorption, and organs of elimination. Lectures, with demonstrations.

333. *Live Stock Diseases, Parasites, and Sanitation.* 2 class hours, 3 laboratory hours.

Prerequisite: Veterinary Science 332.

The common infectious and non-infectious diseases. Sanitation and hygiene. Common external and internal parasites of farm animals.

Fee: \$1.50.

DEPARTMENT OF DAIRY MANUFACTURES

Associate Professor Renner.

The Department of Dairy Manufactures, in addition to offering a liberal training in the science of agriculture, is designed to train students to become plant operators, superintendents or managers of milk, butter, cheese or ice cream plants, as well as to give instruction in the fundamentals of dairy practice to students who are not intending to specialize in dairy manufacturing. The department also offers courses designed to train students for city, state or federal inspectors of dairy products.

Equipment is available for the teaching of fundamental work, and local milk, ice cream and butter plants are available for practical laboratory work in the courses offered.

The department maintains a small dairy plant for student instruction. It is equipped to handle market milk, cheese and butter manufacture. In addition to the plant equipment, a dairy laboratory is maintained with sufficient scientific equipment to make various tests on the different dairy products. This department is in a position to make tests for individual citizens of the State at actual cost of performing the test.

Students specializing in this department should have at least six months, practical experience before graduation. The department will assist worthy students in securing summer employment in creameries,

milk plants or ice cream factories. This requirement may displace that of general farm experience noted in the requirements for graduation.

131. *Principles of Dairy Manufacturing.* 2 class hours, 3 laboratory hours.

A survey of the field of dairy manufactures. Composition of milk, cow testing, semi-official testing work, lactometers, acidity, the Babcock test, separators.

Fee: \$1.50.

230. *The Farm Dairy.* 2 class hours, 3 laboratory hours.
Prerequisite: Dairy Manufactures 131.

A study of market milk and cream. The manufacture of farm dairy butter and cheese. A brief survey of the other fields of Dairy Manufactures and their relation to the farm.

Fee: \$1.50.

321. *Judging of Dairy Products.*

Scoring butter, cheese, ice cream and milk.

Fee: \$1.50.

331. *Market Milk.* 2 class hours, 3 laboratory hours.
Prerequisites: Dairy manufactures 131 and 230.

A study of the distribution of fluid milk. Food value and chemistry of milk., pasteurization, bottling and retailing.

Fee: \$1.00.

333. *Cheese Making.* 2 class hours, 3 laboratory hours.
Prerequisite: Dairy Manufactures 230.

The history and development of the cheese industry. Classification and manufacture of various types of cheese.

Fee: \$1.50.

336. *Dairy Bacteriology.* 2 class hours, 3 laboratory hours.
Prerequisite: Bacteriology 231, and Dairy Manufactures 230.

Types of bacteria present in milk and milk products. Various methods of control.

Fee: \$1.50.

337. *Dairy Plant Equipment.* 2 class hours, 3 laboratory hours.
Prerequisite: Dairy Manufactures 230.

A study of the equipment used in the dairy plant.

Fee: \$1.00.

339. *Laboratory Control of Dairy Products.* 2 class hours, 3 laboratory hours.

Prerequisite: Organic Chemistry. Dairy Manufactures 230.

Laboratory technique as applied to the manufacture of dairy products.

Fee: \$1.50.

411. *Seminar.*

Prerequisite: Senior standing in Dairy Manufactures.

A review of current literature and special papers.

- 421-2. *Dairy Technology.*

Prerequisite: Dairy Manufactures 333, 332.

The manufacture of condensed milk and milk powder. The commercial use of whey, buttermilk and casein. Supplemented by field trips.

431. *Dairy Products Merchandising.* 2 class hours, 3 laboratory hours.

Prerequisite: Senior standing.

The merchandising of butter, cheese, ice cream and milk. Advertising, salesmanship, credits, special practice. Supplemented by field trips.

Fee: \$1.50.

- 433-4. *Butter Making.* First term, 3 class hours; second term, 1 class hour, 6 laboratory hours.

Prerequisite: Dairy Manufactures 230, Organic Chemistry, Bacteriology 231.

History and development of the butter industry. Sweet and sour cream, starters, pasteurization, neutralization, churning, washing, salting and working of butter, market classification, butter defects, composition of butter. Actual plant practice in the manufacture of butter, cream grading, neutralization, starters. Supplemented by field trips.

Fee: \$3.00.

435. *Dairy Plant Inspection.* 2 class hours, 3 laboratory hours.

Prerequisite: Senior standing in Dairy Manufactures.

A study of milk ordinances. Sanitary regulations.

Local, state and federal regulation of dairy products.

Fee: \$1.00.

439. *Dairy Manufacturing Problems.* 9 laboratory hours.

Prerequisite: Senior or graduate standing in Dairy Manufactures.

A scientific study of special phases of the dairy manufacturing industry.

- 441-2. *Ice Cream Making*. 2 class hours, 6 laboratory hours.
Prerequisite: Dairy Manufactures 230, Organic Chemistry.

The history and development of the ice cream industry. Ice cream ingredients, standardization, calculation of ice cream mixes, processing, freezing, flavors. Supplemented by field trips.

Fee: \$1.50 a term.

442. *Management of Dairy Manufacturing Plants*. 3 class hours, 3 laboratory hours.

Prerequisite: Senior standing in Dairy Manufactures.

The organization and control of the dairy manufacturing plant from a business standpoint. Supplemented by field trips.

Fee: \$1.00.

DEPARTMENT OF HORTICULTURE AND GENETICS

Professor Mahoney. Associate Professor Russell.

The Department of Horticulture and Genetics offers instruction in the basic principles underlying plant propagation, orcharding, olericulture, floriculture, ornamentals, and landscape architecture. The science of genetics is taught in this department, particularly stressing its application to plant and animal improvement. In addition to instruction in these special subjects, the curriculum offers work leading to a well-rounded education.

The purpose of the courses in Landscape Architecture is to equip the student for practical work. The courses give instruction in the design, construction, planting, development and maintenance of farmsteads, estates, private grounds, parks, playgrounds, subdivisions, golf courses and city planning. Emphasis is laid upon the importance of home gardens and the beautification of farms.

The equipment of the department includes the first unit of a modern, well-equipped greenhouse. A large nursery is being maintained for instruction and practice in plant propagation. Soon after the establishment of the College a ten-acre orchard and vineyard was planted, which also includes small fruits and strawberries. All varieties of deciduous and citrus fruits and grapes are available for study.

The beautification of the campus, which is under way, offers abundant instruction to the student in planning, planting, training, and identification of trees, shrubs, flowering shrubs, and flowering annuals and perennials. A twenty-acre arboretum has been started on the campus and is used for the study of ornamentals and landscape architecture.

Field trips are an integral part of the work. A ten-day field trip is made in midwinter to the Rio Grande Valley. Surveys are made of field practices in vegetable growing and fruit production.

HORTICULTURE

131. *Home Gardening*. 2 class hours, 3 laboratory hours.

The propagation, planting and care of the most common trees, shrubs, roses, and herbaceous perennials. Soils and fertilizers. Most common methods of budding and grafting. Practical work in greenhouse and nursery. For non-agricultural students interested in home and garden improvement.

Fee: \$1.50.

141. *Plant Propagation*. 3 class hours, 3 laboratory hours.

Prerequisite: Botany 131.

A study of plant propagation, greenhouse and nursery practice.

Note: Students who have approached part of this subject in high school Vocational Agriculture will not be required to repeat unnecessarily work already covered.

Fee: \$1.50.

233. *Vegetable Gardening*.

Prerequisite: Horticulture 141.

Planning, planting, and operating a truck garden. The home garden. Fertilization and spraying of garden; erection of cold frames and hot beds.

238. *Principles of Floriculture*. 2 class hours, 3 laboratory hours.

Prerequisite: 1 year of Botany, Horticulture 141.

The basic fundamental principles underlying flower production.

Fee: \$1.50.

239. *Floriculture*. 2 class hours, 3 laboratory hours.

The culture and use of annuals, perennials, bulbous plants and flowering shrubs especially adapted to this region. General beautification of the home grounds. Practical work in the greenhouse and on the campus.

For non-agricultural students.

Fee: \$1.50.

321. *Ornamentals*. 2 class hours, and field trips.

Identification, characteristics and uses of hardy shrubs. For Landscape Architecture students.

322. *Ornamentals*. 2 class hours, and field trips.

Identification, characteristics and uses of the most common types of evergreens and deciduous trees.

323. *Ornamentals*. 2 class hours, and field trips.

Identification, characteristics and uses of hardy perennials, bulbs, roses, and some of the most common annuals.

331. *Grapes and Small Fruits*. 2 class hours, 3 laboratory hours.

Prerequisite: Horticulture 141.

Grapes and small fruits. Climatic, soil and water requirements. Propagation. Pruning. Varieties and cultural practices. Inheritance, selections, advanced genetics.

Fee: \$1.50.

332. *Pruning and Spraying*. 3 class hours, and field trips, and laboratory.

Prerequisite: Horticulture 141.

The principles of pruning fruit trees, ornamentals, grapes, and small fruits. Study of sprays. Methods of spraying, spraying calendars, control of insects, fungus, and bacterial diseases of orchard and truck gardens.

Fee: \$1.00.

333. *Sub-Tropical Pomology*.

Prerequisite: Horticulture 141 and 341.

Fruits and nuts of commercial importance in the Southwest, such as persimmon, pecan, avocado, fig, olive, walnut, and dates. Selection and breeding.

337. *Landscape Appreciation*.

The history of gardening. Basic principles of landscape design for the home grounds, small suburban homes, farm homes. The principal trees and shrubs for home grounds.

341. *Orcharding*. 3 class hours, 3 laboratory hours.

Prerequisite: Horticulture 141.

The principles of fruit production.

Fee: \$1.50.

411-2. *Seminar*.

Prerequisite: Senior standing in Horticulture.

Assigned problems and readings, with informal discussions, oral reports and papers.

420. *Field Trip in Horticulture*.

Prerequisite: Junior standing.

Ten-day trip to the Rio Grande Valley. Vegetables, orcharding, irrigation, picking and packing of fruit and vegetables, marketing. Field surveys and reports.

421. *Care of Plant Materials.*

Prerequisite: Horticulture 141.

Planting, pruning, shearing, spraying and transplanting of ornamentals.

For Landscape Architecture students.

422. *Geography of Vegetable Production.*

Prerequisite: Horticulture 431.

A thorough survey of the area of production, together with the time of shipment and the factors determining distribution.

430. *Horticulture Problems.*

Prerequisite: Senior standing in Horticulture.

Special assigned problems and research in horticulture.

Lectures, consultation and research.

431. *Systematic Olericulture.* 2 class hours, 3 laboratory hours.

Prerequisite: Horticulture 141, 233.

Descriptions, nomenclature and classification of vegetables. A study of the more important groups of horticultural varieties. For students specializing in vegetable production.

Fee: \$3.00.

432. *Commercial Floriculture.* 2 class hours, 3 laboratory hours.

Prerequisite: Horticulture 141, 238, 321, 323.

Essentials of successful flower growing. Propagation of ornamentals in nursery practice. For advanced students in Horticulture entering commercial flower production and nursery work.

Fee: \$1.50.

433. *Advanced Truck Crop Production.*

Prerequisite: Horticulture 422.

Problems of commercial vegetable gardening, principally those related to methods of production for general market and cannery. Assigned readings.

434. *Citriculture.*

Prerequisite: Horticulture 341, and Genetics 332.

The commercial production of citrus fruits, adaptation, soil requirements, temperature, orchard heating and irrigation. Genetic selection and variety improvement. Senior Horticulture students take a trip to the Rio Grande Valley.

435-6-7. *Advanced Pomology.*

Prerequisite: Senior standing in Horticulture.

The principles underlying fruit production, temperature, moisture, irrigation, nutrition, fruit setting, advanced genetics of the pomological fruits. Organization and management in fruit production.

449. *Systematic Pomology*. 3 class hours, 3 laboratory hours.

Prerequisite: Horticulture 341.

Nomenclature, variety description, classification, climatic and regional adaptation. Practice in describing and identifying varieties of fruits, judging and planning exhibits.

Fee: \$3.00.

LANDSCAPE ARCHITECTURE

- 331-2-3. *Landscape Design*. 1 class hour, 6 laboratory hours.

Prerequisite: Drawing 124 and Architecture 123.

Principles of landscape design; the city home, country estates, gardens, small city parks and playgrounds.

Fee: \$4.00.

- 335-6. *Landscape Construction*. 1 class hour, 6 laboratory hours.

Prerequisite: Civil Engineering 230, or its equivalent.

Preparation of grading plans, specifications, reports and working drawings.

Fee: \$3.00.

429. *Office Practice in Landscape Architecture*. 2 class hours.

Prerequisite: Senior standing in Landscape Architecture.

Professional ethics and practice, specifications, contracts and organization.

- 431-2-3. *Advanced Landscape Design*. 1 class hour, 6 laboratory hours.

Prerequisite: Landscape Architecture 333, 336.

Civic properties, schools, rural parks, golf courses, estates, subdivisions. Based on topographical surveys.

Fee: \$4.00.

- 435-6. *Planting Design*. 1 class hour, 6 laboratory hours.

Prerequisite: Horticulture 321, 322, 323 and Landscape Architecture 333.

Theory of arrangement. Planting plans for all types of problems.

Fee: \$3.00.

- 437-8. *City Planning*. 1 class hour, 6 laboratory hours.

Principles underlying the physical development of communities. Zoning. City, village and rural improvement. Principles of successful "master plan."

Fee: \$3.00.

GENETICS

331-2. *Principles of Genetics*. First term, 3 class hours; second term, 2 class hours, 3 laboratory hours.

Prerequisite: Mathematics 134-5-6, Botany 131-2-3, and Agricultural Economics 334.

A study of heredity and variation of both plants and animals. History. The chromosome theory in higher animals, poultry and insects. Factorial theory in plants. Biometry as applied to genetic data stressing economic plants and animals. Problems.

Fee: \$1.50 for Genetics 332.

SCHOOL OF HOME ECONOMICS

MARGARET W. WEEKS, DEAN

The School of Home Economics of the Texas Technological College offers to young women a college education leading to the degree of Bachelor of Science. The curricula are arranged to meet the needs of those young women who desire a good foundation in the subjects relating to the social, scientific, artistic and economic problems of the home; for those who wish to prepare themselves for teaching home economics in high schools of the State, and for those who desire to prepare themselves for advanced work leading to such vocations as Interior Decorators and Costume Designers.

The School of Home Economics also aims to give instruction to students registered in other schools of the College who may elect Home Economics courses as a part of a liberal education.

BUILDINGS

Three buildings are used for Home Economics teaching, namely, the first unit of the Home Economics Building, the Home Management House, and the Cafeteria.

The first unit of the Home Economics Building was completed at the opening of the College. It is a two-story brick building and contains, in addition to class rooms, well equipped laboratories for teaching foods, clothing and applied arts.

The Home Management House, located near the Home Economics Building, is a two-story brick building in harmony with the Spanish type of architecture adopted for the College buildings. The function of the house is threefold: to serve as a home where the students may put into practice the knowledge gained in the classroom; to serve as a laboratory for work in the home furnishings, and to be used as a center for social activities of the School of Home Economics.

The Cafeteria is used as a laboratory for students interested in large quantity cookery, and in school lunchroom work.

FIELD FOR GRADUATES

The School of Home Economics aims to prepare young women for the important vocation of home making and for the vocations which grow out of home making activities. There are many positions open to the home economics trained woman, among which may be mentioned the following positions:

Tester in textile laboratories for department stores; better business-bureaus; personal shoppers in large department stores; designers in factories and dressmakers' shops; home demonstration agents; consultants or stylists in home decorating studios and department stores; dietitians in hospitals and schools; tea room or lunch room managers; writers of articles dealing with home problems.

For such commercial positions it is usually necessary that the student have the opportunity for practical experience in the commercial field, and also that she have post graduate courses in the specialized subject. The foundation work, however, is offered at the Texas Technological College. The School of Home Economics is prepared to give advice and to help secure for its students such practical experiences as will lead to vocations listed above.

The School of Home Economics has been approved by the State Board of Vocational Education. Graduates of the School of Home Economics who satisfactorily complete the work of the teacher training major are eligible to receive, in addition to the B. S. degree, the Smith-Hughes Home Economics Certificate. This certificate is awarded by the State Department of Education and entitles the holder to teach Home Economics under the Smith-Hughes plan.

ADMISSION REQUIREMENTS

Admission requirements to the School of Home Economics of the Texas Technological College are similar to the general admission requirements of other schools in the College.

Admission may be by any one of the three methods following:

- (a) Upon presentation of a certificate of graduation from an accredited secondary school.
- (b) Upon successful examination in the entrance subjects.
- (c) Upon individual approval.

Fifteen units are required for admission to full freshman standing, as follows:

1. English	3 units
2. Foreign Language	2 units
3. Mathematics	2 units
Plane Geometry 1	
Algebra 1	
4. (a) History, civics, economics, sociology, or	
(b) Botany, zoology, chemistry, physics, geology, general biology, etc.	
Two from either	2 units
5. From the group not chosen under (4)	1 unit
6. From any accredited high school subjects, not more than four of which may be vocational subjects	5 units
Total	15 units

Students who have no entrance units in foreign language to present will schedule one year of foreign language in order to make up the deficiency.

REQUIREMENTS FOR GRADUATION

1. Successful completion of one of the prescribed curricula
2. Two years of physical education
3. A sufficient number of grade points
4. A minimum of residence of one year at the Texas Technological College. If only one year is given to this College it will be the senior year.

The student in the School of Home Economics is required to follow a carefully prescribed course of study according to the major which she selects. The elective requirements are left to the department in which the major is taken.

A candidate for a vocational certificate must show evidence that she has had six months actual experience in homemaking before she is recommended by the faculty for the certificate. A statement giving details regarding this experience must be filed in the dean's office at the beginning of the senior year.

TEACHERS' CERTIFICATES

Teachers' certificates valid in Texas, and in other states as well, may be secured by students registered in the School of Home Economics provided a sufficient number of courses in Education are included in the students' programs. The courses in Education will count as elective subjects. For complete information regarding teachers' certificates, see Department of Education and Psychology in another part of this catalogue.

MAJOR LINES OF WORK

1. *General Home Economics*. Designed to meet the needs of the student who wishes general training for the home, rather than for professional use.
2. *Teacher Training in Home Economics*. For the student who wishes to prepare herself to teach home economics in the vocational and non-vocational high schools of the State.
3. *Foods and Nutrition*. For the student who wishes more intensive training in food and nutrition than is given in the preceding majors.
4. *Clothing and Textiles*. Intended for the student who wishes more intensive training in clothing and design.
5. *Applied Art*. Intended for the student who has special talent in art and who wishes to prepare herself for advanced work leading to such vocations as costume designer, interior decorator, or textile designer.

DEGREES

The degree of Bachelor of Science in Home Economics will be conferred upon students who satisfactorily fulfill the requirements for graduation.

CURRICULA FOR HOME ECONOMICS STUDENTS
GENERAL HOME ECONOMICS MAJOR

	Term Hours		
	Fall	Winter	Spring
Freshman Year			
English 131-2-2—Composition and Rhetoric	3	6	3
Zoology 134-5-6—The Human Body	3	3	3
*Foreign Language or Elective	3	3	3
General Home Economics 121—Orientation	2		
Applied Arts 111—Art Appreciation	1		
Applied Arts 131—Principles of Design		3	
Mathematics 1300—Math. for Home Economics Students			3
Clothing 131—Clothing Construction	3		
Clothing 132—Principles of Dress Selection		3	
Clothing 133—Elementary Textiles			3
	15	15	15
Sophomore Year			
English 231-2-3—Introduction to Literature	3	3	3
History 131-2-3—History of Civilization	3	3	3
Chemistry 141-2-3—Elementary General Chemistry	4	4	4
Psychology 230—Introduction to Psychology	3		
Psychology 232—General Psychology		3	
Foods 131-2—Elementary Food Preparation	3	3	
Foods 133—Elementary Nutrition			3
General Home Economics 331—Home Nursing			3
	16	16	16
Junior Year			
Bacteriology 232-3—Household Bacteriology	3	3	
Physics 334-5—Household Physics	3	3	
Government 331-2—American Government		3	3
Applied Art 231—Costume Design	3		
Clothing 231-2—Elementary Dress Design		3	3
General Home Economics 332—Household Management	3		
General Home Economics 333—Child Development		3	
Foods 231-2—Meal Planning and Table Service	3	3	
Foods 233—Nutrition			3
Elective			5
	15	18	14
Senior Year			
Sociology 231-2-3—Principles of Sociology, or	3	3	3
Economics 231-2-3—Principles of Economics			
Applied Arts 431—Interior Decoration			3
Clothing Electives		6	3
Foods Electives	3	3	3
General Home Economics 431—Family Relationships			3
General Home Economics 461—Residence in Home Management House	6		
General Electives	3	3	
	15	15	15

*Students who enter with two units of foreign language may schedule the same foreign language in which they have high school credit or a new foreign language. In the former case they should schedule Foreign Language 231-2-3; in the latter they should schedule Foreign Language 131-2-3.

TEACHER TRAINING IN HOME ECONOMICS MAJOR

See note at bottom of this page.

	Term Hours		
	Fall	Winter	Spring
Freshman Year			
English 131.2-3—Composition and Rhetoric	3	3	3
Zoology 134-5-6—The Human Body	3	3	3
Applied Arts 111—Art Appreciation	1		
General Home Economics 121—Orientation	2		
Applied Arts 131—Principles of Design		3	
Math. 1300—Math. for Home Economics Students			3
Clothing 131—Clothing Construction	3		
Clothing 132—Principles of Dress Selection		3	
Clothing 133—Elementary Textiles			3
Foods 131-2—Elementary Food Preparation	3	3	
Foods 133—Elementary Nutrition			3
	15	15	15
Sophomore Year			
English 231.2-3—Introduction to Literature	3	3	3
Chemistry 141-2-3—Elementary General Chemistry	4	4	4
Psychology 230—Introduction to Psychology	3		
or			
Ed. 231—Educational Psychology			
Psychology 232—General Psychology		3	
or			
Psychology 332—Advanced Educational Psychology			
Education 239—Principles of Teaching			3
Elective	3	3	3
Foods 231-2—Meal Planning and Table Service	3	3	
Foods 233—Nutrition			3
	16	16	15
Junior Year			
Chemistry 343.4—Organic Chemistry	4	4	
Bacteriology 232.3—Household Bacteriology	3	3	
Government 331-2—American Government		3	3
Applied Arts 231—Costume Design	3		
Clothing 231-2—Elementary Dress Design		3	3
General Home Economics 333—Child Development		3	
General Home Economics 332—Household Management	3		
General Home Economics 331—Home Nursing			3
General Home Economics 461—Residence in Home Management House			6
Clothing 331—Advanced Textiles	3		
Electives			
	16	16	15
Senior Year			
Sociology 231.2-3—Principles of Sociology	3	3	3
or			
Economics 231.2-3—Principles of Economics			
Home Economics Education 431-2—Methods in Home Economics	3	3	
Home Eco. Ed. 433—Practice Teaching			3
Home Economics Education 434—Methods in Clothing	3		
Applied Arts 431—Interior Decoration			3
Foods 331—Lunch Room Management	3		
or			
Foods 334—Demonstration Cookery			
Foods 432—Advanced Nutrition			3
General Home Economics 431—Family Relationships			3
Clothing 332—Children's Clothing		3	
Electives	3	6	
	15	15	15

Students desiring to obtain a certificate to teach at the close of the Freshman year may substitute Government and Education in place of any two of the following: Zoology, Foods or Clothing.

FOODS AND NUTRITION MAJOR

	Term Hours		
	Fall	Winter	Spring
Freshman Year			
English 131-2-3—Composition and Rhetoric	3	3	3
Chemistry 141-2-3—Elementary General Chemistry	4	4	4
Foods 131-2—Elementary Food Preparation	3	3	
Foods 133—Elementary Nutrition			3
Applied Arts 111—Art Appreciation	1		
General Home Economics 121—Orientation	2		
Applied Arts 131—Principles of Design		3	
Math. 1300—Math. for Home Economics Students			3
Foreign Language or Elective	3	3	3
	16	16	16
Sophomore Year			
English 231-2-3—Introduction to Literature	3	3	3
Zoology 134-5-6—The Human Body	3	3	3
Psychology 230—Introduction to Psychology	3		
Psychology Elective		3	
General Home Economics 331—Home Nursing			3
Clothing 131—Clothing Construction	3		
Clothing 132—Principles of Dress Selection		3	
Clothing 133—Elementary Textiles			3
Foods 231-2—Meal Planning and Table Service	3	3	
Foods 233—Nutrition			3
	15	15	15
Junior Year			
Sociology 231-2-3—Principles of Sociology	3	3	3
or			
Economics 231-2-3—Principles of Economics			
Physics 334-5—Household Physics	3	3	
Bacteriology 232-3—Household Bacteriology	3	3	
Government 331-2—American Government		3	3
Foods 331—Lunch Room Management	3		
Foods 332—History and Purchasing of Foods		3	
Foods 334—Demonstration Cookery			3
Home Economics 332—Household Management	3		
Electives			6
	15	15	15
Senior Year			
Chemistry 343-4-5—Organic Chemistry	4	4	4
Foods 431—Catering	3		
Foods 432—Advanced Nutrition		3	
General Home Economics 461—Residence in Home Management House	6		
General Home Economics 431—Family Relationships			3
Foods 433—Nutrition in Disease			3
Home Economics Electives		3	3
Electives	2	6	3
	15	16	16

*Students who enter with two units of foreign language may schedule the same foreign language in which they have high school credit or a new foreign language. In the former case they should schedule Foreign Language 231-2-3; in the latter they should schedule Foreign Language 131-2-3.

CLOTHING AND TEXTILES MAJOR

	Term Hours		
	Fall	Winter	Spring
Freshman Year			
English 131-2-3—Composition and Rhetoric	3	3	3
*French 131-2-3—Beginning French	3	3	3
Zoology 134-5-6—The Human Body	3	3	3
Applied Arts 111—Art Appreciation	1		
General Home Economics 121—Orientation	2		
Applied Arts 131—Principles of Design		3	
Math. 1300—Math. for Home Economics Students			3
Clothing 131—Clothing Construction	3		
Clothing 132—Principles of Dress Selection		3	
Clothing 133—Elementary Textiles			3
	15	15	15
Sophomore Year			
English 231-2-3—Introduction to Literature	3	3	3
History 131-2-3—History of Civilization	3	3	3
Chemistry 141-2-3—Elementary General Chemistry	4	4	4
Applied Arts 231—Costume Design	3		
Clothing 231-2—Elementary Dress Design		3	3
Foods 131-2—Elementary Food Preparation	3	3	
Foods 133—Elementary Nutrition			3
	16	16	16
Junior Year			
Government 331-2—American Government	3	3	
Psychology 230—Introduction to Psychology	3		
Psychology Elective		3	
Education 239—Principles of Teaching			3
General Home Economics 332—Household Management	3		
Clothing 331—Advanced Textiles	3		
Clothing 332—Children's Clothing		3	
Clothing 333—Advanced Dress Design			3
Clothing 436—Construction and Renovation and Household Furnishings			3
Electives	3	6	6
	15	15	15
Senior Year			
Sociology 231-2-3—Principles of Sociology	3	3	3
Economics 231-2-3—Principles of Economics	3	3	3
Applied Arts 431—Interior Decoration			3
Clothing 434—Demonstration Clothing	3		
Clothing Electives	3	3	3
Home Economics Electives	3	3	3
General Electives	2	3	
	17	15	15

*If two Units in French were presented for entrance schedule French 231-2-3.

APPLIED ARTS MAJOR

	Term Hours		
	Fall	Winter	Spring
Freshman Year			
English 131-2-3—Composition and Rhetoric	3	3	3
History 131-2-3—History of Civilization	3	3	3
Engineering Drawing 133		3	
Applied Arts 111—Art Appreciation	1		
General Home Economics 121—Orientation	2		
Applied Arts 131—Principles of Design	3		
Applied Arts 132—Elementary Applied Design		3	
Applied Arts 133—Lettering			3
Math. 1300—Math. for Home Economics Students			3
Clothing 131—Clothing Construction	3		
Clothing 132—Principles of Dress Selection		3	
Clothing 133—Elementary Textiles			3
	15	15	15
Sophomore Year			
English 231-2-3—Introduction to Literature	3	3	3
*French 131-2-3—Beginning French	3	3	3
Chemistry 141-2-3—Elementary General Chemistry	4	4	4
Arch. 121-2-3—Object Drawing	2	2	2
Electives	3	3	3
	15	15	15
Students whose major interest is Costume Design should schedule—			
Clothing 231—Elementary Dress Design			
Applied Arts 231—Costume Design			
Applied Arts 232—Advanced Costume Design			
Students whose major interest is Interior Decoration should schedule—			
Clothing 135—Craft Work in Textiles			
Clothing 331—Textiles			
Applied Arts 431—Interior Decoration			
Junior Year			
Physics 334-5—Physics for Home Economics Students	3	3	
Government 331-2—American Government	3	3	
Foods 234			3
Applied Arts 331-2-3	3	3	3
Electives	3	3	3
Students whose major interest is Costume Design should schedule—			
Clothing 432			
Applied Arts 233			
Applied Arts 435			
Students whose major interest is Interior Decoration should schedule—			
Applied Arts 431-2-3			
Electives	6	3	6
	18	15	15
Senior Year			
Sociology 231-2-3—Principles of Sociology	3	3	3
Economics 231-2-3—Principles of Economics	3	3	3
Applied Arts 436-7-8—General History of Art	3	3	3
Electives	8	6	6
	17	15	15

NOTE: The Applied Arts major may be changed to suit the load of the available teaching staff.

DEPARTMENT OF APPLIED ARTS

Associate Professor Dorrel.

The Department of Applied Arts aims to develop appreciation and good taste, as well as to afford an opportunity for creative work in one of the many phases of design. The courses are designed to meet the aesthetic needs of two groups of students: those who are majoring in Home Economics and those who wish to major in one of the specialized fields of Applied Arts, such as Costume Design, Interior Decoration, or Applied Design. Provision is made for students from other schools of the College who wish an initial course in any of these three phases.

111. *Non-Technical Art Appreciation course.*

An appreciation of design principles wherever found, building up in the student a sound basis of discrimination of art quality. A study of the simpler type of room accessories and picture reproductions.

131. *Elementary Design.* 1 class hour, 4 laboratory hours.

Required in all majors.

A study of design principles and color theory in their practical and aesthetic applications. Simple creative design in line, mass and color to develop correct decorative appreciation. Elementary work in lettering.

Fee: \$1.50.

132. *Elementary Applied Design.* 6 laboratory hours.

Prerequisite: Applied arts 131.

An application of the student's original designs in the simple crafts of block-printing, tie dyeing, etc. Study and adaptation of simple types of historical and national ornament.

Fee: \$1.50.

133. *Lettering.* 6 laboratory hours.

Prerequisite: Applied Arts 131, 132.

Study in the various types of alphabets. Practical work in relation of upper and lower case letters, spacing, letter illumination, etc. Poster lettering. Use of various types of standard lettering pens.

Fee: \$1.00.

231. *Costume Design.* 1 class hour, 4 laboratory hours.

Prerequisite: Applied Arts 131.

A condensed course in dress planning. Study of effects of line, mass and color on various types of women. Illustrative work on the lay figure and with actual textures and colors on the standard dress form and on the individual students. Production of illustrative material for the teaching of costume planning in high school clothing classes.

Fee: \$1.50.

232. *Costume Design for Applied Arts Majors.* 1 class hour, 4 laboratory hours.

Prerequisite: Applied Arts 131-132-133, Architecture 121-2-3.

A more technical course in dress design for students who wish to take further work in the subject. Application of principles of design and color to costume, using the student's original designs upon the lay figure of varying proportions. Emphasis upon costume technique.

Fee: \$1.50.

233. *Advanced Historic Costume.* 6 laboratory hours.

Prerequisite: Clothing 231 or 232, Clothing 432.

A course in costume design, dealing with the historic periods in dress and national costume as inspiration for modern costume. Attention to details and color combination, rather than to silhouette.

Fee: \$1.00.

- 331-2-3. *Advanced Applied Design.* 6 laboratory hours.

Prerequisite: Applied Arts 131, 132, 133, Architecture 121-2-3.

An advanced course, continuing the work of Applied Arts 132. Development of the student's original designs in the more elaborate crafts, as batik, two-color block printing, needle point, etc.

Fee: \$4.00.

431. *Interior Decoration.* 1 class hour, 4 laboratory hours.

Prerequisite: Applied Arts 131.

A condensed course in home planning. Selection and criticism of good and bad interiors, color scheme planning. Individuality of rooms.

Fee: \$1.50.

432. *Interior Decoration for Applied Arts Majors.* 6 laboratory hours.

Prerequisite: Applied Arts 131, 132, 133, Architecture 121-2-3. Engineering Drawing 133.

A more technical course in interior decoration for students who wish to take further work in the subject. Simple floor plan and elevation making. Work in painted and actual color schemes. Individual treatment of various rooms of the house.

Fee: \$1.00.

- 433-4. *Advanced Interior Decoration for Applied Arts Majors.* 6 laboratory hours.

Prerequisite: Applied Arts 432.

Period styles in interior architecture, decoration and furniture. Study of the familiar styles of architecture in the South and West in relation to the interior finishing and furnishing suitable to each. Emphasis upon English and Spanish interiors. Elevations in definite period styles.

Fee: \$3.00.

435. *Costume Decoration*. 6 laboratory hours.

Prerequisite: Art and Clothing courses approved by instructors.

This course is taught jointly by the Clothing and Applied Arts Departments. See Clothing 435.

Fee: \$1.50.

436-7-8. *General History of Art*.

Prerequisite: Junior standing, History 131-2-3, Applied Arts 131.

Required of all Applied Arts majors. A survey of the important art epochs in the fields of painting, sculpture and architecture. Illustration by lantern slides. Library study and individual reports.

Fee: \$4.00.

DEPARTMENT OF CLOTHING AND TEXTILES

Professor Erwin. Assistant Professor Buster.

The Department of Clothing and Textiles offers instruction in the fundamental principles of clothing selection and construction, in textiles, and in dress design. All students registered in the School of Home Economics are required to take at least 9 term hours in this department. Students majoring in Clothing must consult their adviser regarding advanced courses and electives. Students expecting to teach Clothing in high schools should choose among their electives Home Economics Education 431-2-3. Students expecting to teach in vocational high schools should not major in this department, but in teacher training.

131. *Elementary Clothing Construction*. 6 laboratory hours.

Principles of construction applied to cotton, rayon and linen garments.

Students who present a certificate from a vocational high school and who are able to pass a placement test satisfactory to the instructor, are exempt. Such students do not receive credit for this, but later elect a three point course, preferably History, English or French.

Fee: \$1.50.

132. *Principles of Dress Selection*. 1 class hour, 4 laboratory hours.

Prerequisite: Clothing 131.

A study of the best selection of dress for the individual, based largely on principles of design and color, occasion, social and economic conditions. Principles of hygiene in dress, the clothing budget, care and repair of garments. Making two-piece wash-dress.

Fee: \$1.50.

133. *Elementary Textiles*. 1 class hour, 4 laboratory hours.

Choice, cost and care of fabrics for clothing and home furnishing. A study of factors influencing quality in materials and how to recognize quality. Practical problems for immediate use.

Fee: \$1.00.

135. *Craft Work in Textiles*. 6 laboratory hours.

Prerequisite: Clothing 133 and Applied Arts 131.

A course in constructing hand woven materials such as rugs, scarfs, hooked rugs.

Fee: \$1.50.

221. *Dress Appreciation*.

A course for Liberal Arts students and for majors in the Department of Foods of sophomore standing. Principles of good taste in the selection of dress.

225. *Home Project in Clothing*.

Prerequisite: Clothing 131, 132, 133, Applied Arts 131.

Designed to give the student some experience in solving individual and family clothing problems in the home. Aims to develop ability in management and technical skill, and fulfills partially the requirement of the Federal Board of Vocational Home Economics that each student have home making experience.

This work must be carried on during vacations.

Fee: \$1.50.

231-2. *Elementary Dress Design*. 6 laboratory hours.

Prerequisite: Applied Arts 231, Clothing 131, 132, 133.

Problems in fitting and adapting patterns. Comparisons with standard commercial patterns. Development of freehand drafts. Emphasis on originality. Garment construction in wool and silk.

Fee: \$3.00.

331. *Advanced Textiles*.

Prerequisite: Clothing 232.

A study of the underlying principles in the purchase of fabrics both for clothing and home furnishing.

Fee: \$1.50.

332. *Children's Clothing*. 6 laboratory hours.

Prerequisite: Clothing 131, 132, 133, Applied Arts 131 and 231.

Selection, care, designing and construction of children's and infants' clothing.

Fee: \$1.50.

333. *Advanced Dress Design.* 6 laboratory hours.

Prerequisite: Clothing 232, 331.

Preparation and use of the dress form. Emphasis on fitting and developing fine spaces and lines by draping material on person or form. Improved technique and originality required.

Fee: \$1.50.

431. *Millinery.* 6 laboratory hours.

Prerequisite: Clothing 232, junior or senior standing.

Designing, making, decorating of hats. Emphasis on suitable selection for individual costume and occasion.

Fee: \$1.50.

432. *Historic Costume.*

Prerequisite: Advanced standing; Applied Arts and Clothing work satisfactory to instructor.

A survey of the contribution of different countries and civilizations to the development of dress, and the effects upon modern dress design. Recommended for Clothing and Applied Arts majors and for those interested in the costuming of plays and in general dress appreciation.

Fee: \$1.50.

433. *Tailoring.* 6 laboratory hours.

Prerequisite: Clothing 333, or advanced standing.

Principles of fitting and constructing tailored garments. Study of economic and social factors influencing the production and consumption of ready-to-wear clothing.

Fee: \$1.00.

434. *Demonstration Clothing.* 1 class hour, 4 laboratory hours.

Prerequisite: Clothing 232, 331-2.

Elective for seniors majoring in Clothing or for Home Demonstration Agents. A thorough study of methods used in demonstrations, illustrative material, organization, efficient methods, short cuts, exhibits, contests, style shows and use of co-operative agencies.

Fee: \$1.50.

435. *Dress Decoration.* 6 laboratory hours.

Prerequisite: Applied Arts and Clothing courses approved by instructors.

The application of design principles to the decoration of costume. Adaptation of commercial stamping patterns. Development of original designs. Given jointly by Applied Arts and Clothing Departments.

Fee: \$1.50.

436. *Construction and Renovation of Household Furnishings.* 6 laboratory hours.

Prerequisite: Clothing 331 and Applied Arts 431.

Problems in the construction of household linens, curtains, draperies, rugs, slip covers. Especially recommended for home demonstration agents, vocational home economics teachers, and those interested in home furnishing.

Fee: \$1.50.

DEPARTMENT OF FOODS AND NUTRITION.

Professors Weeks, McCrery. Associate Professors Twyford, McFarlane. Assistant Professor Harper.

The Department of Foods and Nutrition offers instruction in the fundamental principles of foods, cookery, and nutrition. All students registered in the School of Home Economics are required to schedule work in this department. Students majoring in Foods and Nutrition should consult their adviser regarding the advanced courses.

Students expecting to teach foods in a high school should choose among their electives Home Economics Education 431-2-3. Students expecting to teach home economics in a vocational high school should not major in this department but in teacher training.

- 131-2. *Elementary Food Preparation.* 6 laboratory hours.

Principles of cookery. Planning, preparing and serving simple meals. Care of food in the home. Purchasing of food. Food budgets. Meal planning and menu making.

Students who present a certificate from a vocational high school, and who satisfy the instructor that they know the work, are exempt from Foods 131. Such students should elect a three point course, preferably an additional course in History, English, or in modern language.

Fee: \$3.00.

133. *Elementary Nutrition.*

The elementary facts of nutrition in relation to the selection of foods which are suitable for college women.

Fee: \$1.00.

225. *Home Project in Foods.*

Prerequisite: Foods 131-2, 133.

Home experience in connection with foods work under the supervi-

sion and advice of an instructor. Aims to develop ability in management and technical skill and partially fulfills the requirement of the Federal Board of Vocational Home Economics that each student shall have home making experience. The work must be done during vacations, but the plan, time, subject are fully planned with the head of the department before being undertaken.

- 231-2. *Meal Planning and Serving*. 1 class hour, 6 laboratory hours.
Prerequisite: Foods 131-2, 133.

The planning, preparation and serving of meals. Special attention to cost in relation to income. Much practice in working out balanced menus.

Fee: \$3.00.

233. *Nutrition*. 2 class hours, 3 laboratory hours.
Prerequisite: Foods 133, 231, Chemistry 141.

A study of the essentials of an adequate diet, continuing the work of Foods 133.

Fee: \$1.50.

234. *Food Selection and Serving*. 2 class hours, 2 laboratory hours.

A course for Applied Arts majors, Liberal Arts students and others. Food preparation in meal combinations. Emphasis upon selection of foods for health.

Fee: \$4.50.

331. *Lunchroom Management*. 1 class hour, 6 laboratory hours.
Prerequisite: Foods 233.

The adaptation of the knowledge gained in foods and nutrition to the feeding of children of school age; the educational, social, and economic phases of school feeding; equipment, marketing, and keeping of accounts.

332. *History and Purchasing of Foods*.
Prerequisite: Foods 233.

Market conditions and how to select and purchase foods. An elective course for Foods majors or others who have the prerequisites.

333. *Institutional Management*. 2 class hours, 4 laboratory hours.
Prerequisite: Foods 331.

Training in the preparation of food in large quantities; study of institutional equipment, organization, cost, and wholesale buying.

Practical experience in the College cafeteria. For students interested in institutional management.

334. *Demonstration Cookery*. 1 class hour, 4 laboratory hours.
Prerequisite: Foods 233.

The selection and organization of subject matter suitable for demonstrations. Efficient methods, short cuts and illustrative material. Demonstrations given by each member of the class.

Fee: \$1.50.

335. *Experimental Cookery*. 1 class hour, 4 laboratory hours.

Prerequisite: Junior or senior standing. Completion of Foods courses satisfactory to instructor.

Individual work in experimental cookery dealing with problems of special interest to the students concerned.

Fee: \$1.50.

431. *Catering*. 1 class hour, 6 laboratory hours.

Prerequisite: Junior or senior standing and completion of Foods course satisfactory to instructor.

A study of more unusual and elaborate dishes and serving of formal meals and serving at special functions. When serving is done at special functions, extra hours are required.

Fee: \$3.00.

432. *Nutrition of Children*. 2 class hours, 2 laboratory hours.

Prerequisite: Foods 233.

Normal nutrition and health, with emphasis on causes and care of malnutrition. Contact with children in the public schools.

Fee: \$1.00.

433. *Nutrition in Disease*.

Prerequisite: Foods 233, 432.

Emphasis on those diseases the prevention and cure of which are largely influenced by diet. Survey of recent literature in the field of Nutrition.

DEPARTMENT OF HOME ECONOMICS EDUCATION

Professors Weeks, Erwin. Instructor Johnson.

Students who wish to qualify as teachers of vocational Home Economics should schedule the following courses in Home Economics Education.

431. *Problems in Home Economics Education*.

Prerequisite: Foods 233, Clothing 331, General H. E. 331, 332, 333, Education 239.

The curricula of various types of schools; the home project and other problems in home economics teaching; the literature of the sub-

ject and a brief survey of the development of home economics in the United States.

432. *Special Methods in Home Economics.*

Prerequisite: Foods 233, Clothing 331, General H. E. 331, 332, 333, Education 239.

The organization and methods of teaching home economics. Required of all students preparing to teach.

433. *Practice Teaching in Home Economics.*

Prerequisite: Home Economics Education 432.

The practice teaching is done in the city schools of Lubbock and Slaton under the supervision of the city teachers and the director of Home Economics teaching at the College. Thirty-six hours of practice teaching.

434. *Demonstration Methods in Clothing.*

(See Clothing 434.)

Fee: \$1.50.

GENERAL HOME ECONOMICS

The following courses, which are known as general Home Economics courses, are offered to students with all majors in the Schools of Home Economics and to Liberal Arts students who have the prerequisites.

121. *An Orientation Course.*

Required of all students registered in the School of Home Economics. The object is to give the student the most assistance for a fuller, happier student life, and at the same time open up the field of possibilities in Home Economics. Problems of interest to all students will be discussed. Lectures will be given by members of the faculty and, if possible, by outside speakers.

331. *Home Nursing.*

Prerequisite: Zoology or Chemistry 9 hours.

The prevention and care of illness. First aid treatment. The preparation and serving of food for the sick. The nursing demonstrations are given by a registered nurse from the Lubbock Sanitarium.

332. *Household Administration.*

Prerequisite: Home Economics courses 18 hours.

The modern home. Emphasis on organization and scientific knowledge as applied to housekeeping problems. Equipment and furnishing. The family budget.

Fee: 50 cents.

333. *Child Care.* 2 class hours, 2 laboratory hours.

Prerequisite: Psychology 230.

A study of the mental and physical care of the child.

Fee: 50 cents.

431. *Family Relationships.*

Prerequisite: Senior standing.

The sociological aspects of family life, including the historical development of the family.

Fee: 50 cents.

461. *Residence in Home Management House.*

Prerequisite: General Home Economics 331-2, 18 hours of Foods.

The application of the principles of home management. Students will live in the home management house under supervision for a period of twelve weeks.

SPECIAL COURSES FOR HOME-MAKERS

In order to meet the needs of the women of Lubbock and of the surrounding country, special courses for home makers have been included in the School of Home Economics. These courses have no prerequisite and carry no college credit. It is recommended that students register for the regular college work whenever possible.

CLOTHING DEPARTMENT

101-2. *Garment Construction.* 3 hours lecture and laboratory.

Non-credit course for home makers. Offered in Winter and Spring terms.

Fee: \$3.00.

FOODS DEPARTMENT

101-2. *Meal Planning, Preparation and Service.* 3 hours lecture and laboratory.

Non-credit course for home makers. Offered in Fall and Winter terms.

Fee: \$4.00.

DEPARTMENT OF EXTENSION

J. F. McDonald, Director.

The Texas Technological College does not confine activities to the daily classes of the campus but through the Department of Extension is serving a large constituency who cannot attend the regular classes.

DIVISIONS

The extension service includes: (1) correspondence instruction, (2) class work in centers away from the campus, (3) night classes on the campus, and (4) group-study instruction for clubs, societies. Correspondence courses are offered in many departments of the schools of Liberal Arts, Agriculture, and Home Economics. Extension courses, given in centers away from the campus, include Economics and Business Administration, Education, English, Government, History, Home Economics, and Mathematics. Night classes on the campus include courses in the schools of Liberal Arts, Agriculture, and Home Economics. Laboratory courses are available, by night classes.

OBJECTIVES

The extension service is designed to meet the needs of the following classes of students: (1) those who desire to work toward a degree or a teacher's certificate, (2) those who desire to prepare for college entrance, (3) those who desire to remove deficiencies of college entrance, (4) those who desire to take certain subjects which are not available in the regular daily schedule of the college, and (5) those who desire to take certain subjects for cultural or practical purposes, whether they can or cannot meet the college entrance requirements.

REGULATIONS

1. One-fourth of the work required for a degree and not over one-half of the work required for teachers' certificates may be done by correspondence study. More work may be done through extension classes.

2. The registration fee for each extension course (one-third of a year's work) is \$10.00, payable in advance, and is not refunded.

3. Students who desire college credits must meet college entrance requirements. But students over twenty-one may enroll on the basis of individual approval.

4. A resident student may register for work in the Department of Extension only with the approval of his dean.

5. Persons who are regularly employed, e. g. teachers, are limited to an average of two extension courses each three months.

6. In correspondence courses, a self-addressed stamped envelope

with sufficient stamps must be enclosed each time for the return of the lesson sheets to the student.

7. Correspondence courses should be completed within three months. They may not be completed in less than thirty days, nor in over twelve months. They must be begun within three months, or be forfeited. Extension class courses run three months.

8. If college credit is to be given, the course must be concluded by a final examination.

9. The examinations must be taken under the personal supervision of the instructor, or of a county superintendent, or city superintendent, or principal of a high school.

10. Textbooks may be purchased from the Tech College Bookstore, Lubbock, Texas, or from the publishers.

11. Library books may be obtained from the College Library upon depositing \$5.00 to cover loss or damages of books. The deposit less legitimate charges will be returned.

CORRESPONDENCE COURSES OFFERED

Subjects numbered from 100 to 200 are freshman courses; from 200 to 300, sophomore courses; and from 300 up, advanced courses. The college entrance courses are listed at the close of the college courses. For a full description of the college courses, including the prerequisites, see the corresponding numbers and titles under the respective Departments of the College, in other parts of this catalogue.

Agriculture: Agricultural Economics and Farm Management.

- 231. Principles of Agricultural Economics.
- 332. Principles of Agricultural Marketing.
- 333. Co-operative Marketing.
- 431. Land Economics.
- 434. Farmer Movements in America.

Agriculture: Agronomy.

- 101. Soil Management.
- 102. Farm Crops.
- 103. Seed Production and Marketing.
- 131. The Fundamentals of Crop Production.*
- 331. Forage Crops.*
- 235. Soils.

Agriculture: Animal Husbandry.

- 134. Types, Market Classes, and Breeds of Cattle and Sheep.*
- 135. Types, Market Classes, and Breeds of Hogs and Horses.*
- 231. Farm Poultry.*
- 232. Development of Breeds of Livestock.

In courses marked thus () laboratory equipment is required.

- 341. Animal Nutrition.
- 342. Live Stock Feeding.

Agriculture: Dairy Manufactures.

- 131. Principles of Dairying.*
- 233. Cheese Making.*
- 331. Market Milk.*

Agriculture: Horticulture.

- 141. Plant Propagation.*
- 233. Vegetable Gardening.*
- 331. Grapes and Small Fruits.
- 337. Landscape Appreciation.
- 434. Citriculture.

Biology.

- 230. Methods of Teaching Biology.
- 231. Heredity.

Biology: Botany.

- 231, 232. Plant Morphology. (Laboratory required.)
- 233. Taxonomy of the Spermatophytes. (Laboratory required.)

Biblical Literature.

- Bible 137, Life of Paul.
- Bible 138, Epistles of Paul.

Chemistry.

- 234, 235, 236. The principles of Chemistry. Lecture Course.
- 230. Methods of Teaching Chemistry.

Economics and Business Administration.

- 231, 232, 233. Introduction to Economics.
- 234, 235, 236. Introduction to Accounting.
- 3313, 3314, 3315. Money, Banking and Business Cycles.
- 337, 338, 339. Administration of Finance.
- 3316-17-18. Corporation Accounting and Budgetary Control.
- 334, 335, 336. Commercial Law.
- 331, 332, 333. Introduction to Business Administration.
- 3321, 3322, 3323. Industrial Management.
- 3310, 3311, 3312. Marketing Administration.

Education.

- 131. Introduction to Education.
- 132. Classroom Organization and Control.
- 133. Methods of Teaching in the Elementary Grades.
- 230. Rural Education.

In courses marked thus () laboratory equipment is required.

- 231. Educational Psychology.
- 232. History of Education.
- 234. Secondary Education.
- 235. The High School Curriculum.
- 236. Methods of Teaching in the High School.
- 237. Kindergarten-Primary Education.
- 2371. Primary Education (continued).
- 2372. How to Teach Reading.
- 238. Children's Literature.
- 2311. School Health and Hygiene.
- 331. Principles of Education.
- 332. High School Problems.
- 333. Observation and Practice Teaching (conference).
- 335. The Junior High School.
- 337. Classroom Tests.
- 338. How to Study.
- 339. Sociological Principles of Education.
- 431. Directing Study.
- 432. Texas Educational System.
- 434. Education in the United States.
- 436. Public School Administration.
- 437. School Publicity.
- 438. Supervision of Instruction.

Education: Psychology.

- 230. Introduction to Psychology.
- 232. General Psychology.
- 331. Child Psychology.
- 335. The Psychology of Adolescence.
- 338. Fundamentals of Educational Statistics.

English: Freshman and Sophomore.

- 131. Composition and Rhetoric.
- 132. Composition and Rhetoric.
- 133. Composition and Rhetoric.
- 231. Introduction to Poetry.
- 232. Introduction to Drama.
- 233. Introduction to Prose Fiction.
- 236. Biblical Literature.

English: Journalism.

- 234. Elementary News Writing.
- 235. Special Feature Articles.
- 236. News Editing.
- 337. Management of the Newspaper.
- 338. Editorial Writing.
- 339. History of American Journalism.

English: Advanced English.

- 334, 335, 336. American Drama.
- 337. Advanced Grammar.
- 338. American Poetry: Bryant to Longfellow.
- 339. American Poetry: Whittier to Whitman.
- 3310. Methods of Teaching English in High Schools.
- 3391. Contemporary English Poetry.
- 432. Shakespeare and the Background.
- 433. Shakespeare Criticism.
- 427. Browning.
- 428. Tennyson.
- 439. Contemporary Drama, Ibsen to Shaw.
- 530. The Short Story: American and English.
- 531. American Novel: 1870 to present.
- 532. The English Novel.
- 533. Types of English and Foreign Fiction.
- 536. Contemporary English and American Essay.

French.

- 131, 132, 133. Beginner's French.
- 231, 232, 233. Reading of French Texts.

German.

- 131, 132, 133. Beginners' German.
- 231, 232, 233. Reading German Texts.
- 334-5-6. Scientific and Commercial German.

Government.

- 131, 132. The United States Constitution.
- 133. The Texas Constitution.
- 220. Parliamentary Law.
- 234. Introduction to Political Science.
- 235, 236. Modern Governments.
- 330. Business Law.
- 331, 332. The United States and Texas Constitutions.
- 335, 336. American Political Parties.

History.

- 131, 132, 133. History of Civilization.
- 231, 232, 233. History of the United States.
- 234, 235, 236. History of England and the British Empire.
- 337, 338, 339. History of the Two Americas.
- 530. Methods of Teaching History.

Home Economics: Clothing.

- 133. Elementary Textiles.

Home Economics: General.

- 332. Household Administration.

- 333. Child Development.
- 431. Family Relationships.

Home Economics: Foods and Nutrition.

- 133. Elementary Nutrition.

Latin.

- 131, 132, 133. Reading and Composition.
- 231, 232, 233. Cicero, Terence, and Horace.
- 339. Methods of Teaching Latin.

Mathematics.

- 100. Solid Geometry.
- 131. College Algebra.
- 132. Plane Trigonometry.
- 133. Introduction to Analytical Geometry and Trigonometric Analysis.
- 230. Methods of Teaching Arithmetic.
- 231. Analytical Geometry.
- 232. Advanced Algebra.
- 233. Advanced Algebra (continued).
- 234. Differential Calculus.
- 235. Differential Calculus (continued).
- 236. Integral Calculus.
- 334. Methods of Teaching Algebra.
- 335. Methods of Teaching Geometry.

Music.

- 134, 135, 136. Elementary Music.
- 234. Elementary Harmony.
- 334. Harmonic Counterpoint.

Physics.

- 233. The Teaching of Physics.
- 324, 325, 326. Problems in Physics.
- 338, 339. Electricity and Magnetism. (Theory.)

Spanish.

- 131, 132, 133. Beginners' Spanish.
- 231, 232, 233. Grammar, Reading, and Composition.
- 331, 332, 333. Contemporary Literature.

CORRESPONDENCE COURSES TO MEET COLLEGE ENTRANCE
REQUIREMENTS

The following college entrance courses are now available, the fee for each being usually \$10.00, payable in advance:

English.

American Literature and Composition, 1 unit.
English Literature and Composition, 1 unit.

History and Civics.

Ancient History, 1 unit.
American History, 1 unit.
Civics, 1 unit.
English History, 1 unit.
Modern History, 1 unit.

Latin.

Beginners' Latin 101, 102, 103.

Mathematics.

Algebra 1: A Beginners' Course, 1 unit.
Algebra 2: A continuation of Algebra 1, 1 unit.
Plane Geometry 1: A Beginners' Course, $\frac{1}{2}$ unit.
Plane Geometry 2: Plane Geometry completed, $\frac{1}{2}$ unit.
Solid Geometry 3: Required of all Engineering Students, $\frac{1}{2}$ unit.
Plane Geometry 1 and 2 must be taken in order to be accredited.

Other college entrance courses may be available upon special request.

EXTENSION CLASS INSTRUCTION

Extension classes will be organized in centers, upon request of a sufficient number, depending on the distance. Resident credit is granted. Both graduate and undergraduate courses are available. Fee: \$10.00. Those interested in securing centers should communicate with the Director of Extension.

NIGHT CLASSES ON THE COLLEGE CAMPUS

Night classes, to meet once or twice a week, as may be arranged, will be organized upon the request of a reasonable number, usually ten. Both graduate and under-graduate courses will be available. In some instances both credit and non-credit courses will be given. The credits will count as residence credits, and will satisfy degree or certificate purposes. The fee for any subject will be \$10.00 per term. A reasonable laboratory fee will be charged for the laboratory sciences.

GROUP-STUDY INSTRUCTION

This service includes study outlines, package libraries for reference, and lectures. Details will be given upon request.

FURTHER INFORMATION

For further information in regard to extension courses, write the Director of Extension, Texas Technological College, Lubbock, Texas.

SUMMER SCHOOL

An annual summer school has been maintained from 1926, the year the College was opened. The first year the summer school was of six weeks duration. Since that time there has been a twelve weeks summer session annually. The enrollment has steadily grown from 336 the first year to 1298 in 1929.

The summer school is designed to fill a number of needs. A student may be in arrears in certain subjects and find it necessary to attend the summer school so as to complete these and thus save practically a year's work because of the order in which some courses have to be approached. The summer school likewise serves the entering student who may thus start his studies in June instead of in September. In fact, in some phases of instruction in the institution, three years and three summer sessions may answer just as well as the usual four years.

The summer session is especially helpful to teachers and to others who find it impracticable to be in college during the long session.

The work of a full year is offered in several subjects during the summer session. This is true in the languages, education, the earlier courses in the sciences, and certain other subjects.

In addition to a large number of courses of undergraduate level there is offered a considerable amount of graduate work leading to the Master's degree.

THE 1930 SUMMER SCHOOL

The session for 1930 will open Monday, June 2, and close Friday, August 22. It will be divided into two practically complete terms, the first to begin June 2, the second to begin July 14.

THE SUMMER SCHOOL CATALOGUE

The April, 1930, number of the College bulletin will contain a full outline of courses offered in the summer school, together with the names of the instructors in the various departments. The catalogue may be had by addressing the Registrar of the College.

STATISTICAL SUMMARY

ENROLLMENT

Report of Enrollment for the Year, 1929-30.

February 13, 1930.

School	Freshmen	Sophomores	Juniors	Seniors	Graduates	Totals
Agriculture	108	40	27	15		190
Engineering	242	142	73	41		498
Home Economics	110	76	31	12		229
Liberal Arts	736	311	167	120	29	1363
Totals	1196	569	298	188	29	2280

	Men	Students	Women	Students	Totals
Agriculture	187		3		190
Engineering	495		3		498
Home Economics			229		229
Liberal Arts	721		642		1363
Total	1403		877		2280

DEGREES CONFERRED 1925-1929

School of Agriculture:	
Bachelor of Science.....	23
School of Engineering:	
Bachelor of Science.....	22
School of Home Economics:	
Bachelor of Science.....	24
School of Liberal Arts:	
Master of Arts.....	15
Bachelor of Arts.....	233
Total.....	317

ATTENDANCE 1925-1929

	Long Session	Summer Session	Extension	Totals
1925-26	1043	336		1379
1926-27	1535	677		2212
1927-28	1682	965	386	3033
1928-29	2088	1298	883	4269

TEXAS TECHNOLOGICAL COLLEGE

OFFICIAL LIST OF GRADUATES

May 30, 1927

SCHOOL OF LIBERAL ARTS

Degree of Bachelor of Arts

Mayme Alexander	Annie Wood Howell
E. Marshall Barnett	Kathleen Ingram
Mary Dale Buckner (Mrs.)	Charles Wesley Ratliff
Edmond Weymon Camp, Jr.	Pauline Roach
Claude Spaulding Denham	Dewey Hobson Roberts
L. T. Green	Pauline Trippett
Esther Burney Groves (Mrs.)	Mary Hope Westbrook

August 24, 1927

Degree of Bachelor of Arts

Alice Alverson	Marian Bradford Morrison (Mrs.)
Rossie Beth Bennett	Rebecca Quinn
Edith Carter	Alma Spikes
Ira Mary Crouch	Eldon Martin Thorp
R. T. Groves	Faola Warren
Willie Mae Hawthorne	Sylva Wilson

May 28, 1928

SCHOOL OF AGRICULTURE

Degree of Bachelor of Science

Felix Glen Blackmon	Elton Mims
Lester E. Brooks	Guy Edgar Orr
Sam Will Chatham	Raymond C. Reed
Dan S. Gillean	Lonnie M. Starr
Leslie C. Jennings	Chester L. Weaver
Charlie Douglas McGehee	

SCHOOL OF ENGINEERING

Degree of Bachelor of Science in the Department Indicated

James Bradford Biggers, B. S. in C. E.
Thelmer Allen Rogers, B. S. in E. E.
Ted Sams, B. S. in C. E.

SCHOOL OF HOME ECONOMICS

Degree of Bachelor of Science

Marguerite Cross Barnett (Mrs.)	Ella Mae Lyle
Faye Brooks	Mary Leola Cox Sides (Mrs.)
Ella Brown	Rena Smith

SCHOOL OF LIBERAL ARTS

Degree of Bachelor of Arts

Xen Brown	Norma Hulme
Vivian Crawford Burran	Lela Marie Jackson
Horace Bailey Carroll	Bess Johnston
Robert Guy Carter	Wynona Jones
Mart Chamberlain	Margaret Lucile Lucas
Irwin Weldon Coleman	Glen Alexander Milam
Lois Cone	William Winfield Nicklaus
Gusceita Leslie Cude (Mrs.)	Joe Noah
Claire Teague Doak (Mrs.)	Zelda Wisdom Ray
Melvin Nisbett Dow	Wilma Robbins
Baylor Durham	Raymond Hoff Rogstead
Houston Belvo Eggen	Lola Mae Rozzell
Marion Fielding Green	Mattie Russell
Hugh Marion Hancock	Matthew Shepherd
Pearl Lee Harper	Zelda Francis Smelser
Kenneth R. Hemphill	Guy Stark, Jr.
Perry Campbell Holder	Owen Mitchell Stewart
Glenys Alyne Honey	William McBee Tucker
Ruth Horn	J. M. Teague, Jr.
Alva Dayle Wallace	Verna Mae Wilson
Elizabeth Thompson Wedgworth	William James Wylly
Carl Hammel Willingham	

August 24, 1928

SCHOOL OF HOME ECONOMICS

Degree of Bachelor of Science

Nena Roberson	Estelle Shepard
Lula Belle Rushing	Leah Merle Williams

SCHOOL OF LIBERAL ARTS

Degree of Bachelor of Arts

Mary Lottie Arwine	Mary Frank Nichols
Lyman Olwein Ashby	Ruth Noah
Claborn J. Bell, Jr.	Cymbol Patterson
Melba Crawford	Altha Bill Poage
Glenda Crawford	Cornelia Evelyn Ratliff
Florence Guenzel Dodson (Mrs.)	Charles Brian Read
Giles Levi Farrar	Deward Homan Reed
Lillian E. Ferguson	Virginia Massey Rogers
Ruth Gwen Forbess	Evelyn Catherine Scarborough
Grace Olivia Geppert	Eula Raye Simmons
Willis James Gray	Ruth Elizabeth Starnes
Gertrude Juanita Haney	Mary Edna Steele
Marlin R. Hayhurst	C. Frances Thomas Van Pelt (Mrs.)
Dahlia Hemphill	Lorelle Wallace
Tom B. Morrison	Louise Warren
Nettie Mullino	Ivy Randolph Witt
Almeda Murray	Mamie Wolffarth

Degree of Master of Arts

Horace Bailey Carroll (B. A., Texas Technological College; Thesis: "Social Life in West Texas from 1875 to 1890.")

Raymond Willis Matthews (B. A., Southern Methodist University); Thesis: "Financial Survey of the Lubbock City Schools for the School Year 1927-28."

Walter Irwin Wilkins (B. A., Howard Payne College); Thesis: "Pathological Condition of the Plains Country."

May 27, 1929

SCHOOL OF AGRICULTURE

Degree of Bachelor of Science

Riley A. Alexander	Claude Hope
John H. Burroughs	Ogden King
B. W. Carmichael	Raleigh C. Middleton
Thomas P. Chapman	Ronald C. Tom
Paul Waldo Griffith	Troy Vernon Weaver

SCHOOL OF ENGINEERING

Degree of Bachelor of Science in the Department Indicated

Andrew Allen, B. S. in E. E.
 Robert Lee Burns, B. S. in M. E.
 J. T. Gist, B. S. in G. E.
 Neville Bruce Graham, B. S. in C. E.
 Rudd E. Hardesty, B. S. in T. E.
 Allen June Hewett, B. S. in A. E.
 Paul Kistler Lefforge, B. S. in M. E. (Chem. Option).
 Will Leslie, B. S. in M. E.
 Julius J. Love, B. S. in T. E.
 Dewitt Talmadge McGehee, B. S. in T. E.
 Jack F. Maddox, B. S. in T. E.
 John H. Osborne, B. S. in C. E.
 Frederick Jerome Sanders, B. S. in M. E. (Chem. Option).
 Bernard Alfred Schmidt, B. S. in E. E.
 Robert Ray Thomas, B. S. in T. E.
 William McBee Tucker, B. S. in E. E.

SCHOOL OF HOME ECONOMICS

Degree of Bachelor of Science

Lila M. Allred	Mary Hazel Hurn
Floy Lee Anglin	Oueda Middleton
Iva Burseson	Pauline Roach
Anna Belle Collins	Marian Sansom
Willie Auvana Hufstедler	Mildred Hines Street

SCHOOL OF LIBERAL ARTS

Degree of Bachelor of Arts

James Theodore Alldredge	Thomas Gray Lyle
Marion Barham Binnion	Edith Ethel McCauley
T. M. Binnion	Ione McClellan
Jewel Goodpasture Bond	Ruth McKee
Iris Crawford	Inez Katheryn Marshall
Agnes Kemp Brown	Raymond Roy Marshall
James Wayne Burkhart	Mildred Jane Mast
William Richard Cavett	Inez Medlock
Mabel Gibbs Coleman	Pauline Miller
Loy B. Cross	James Clyde Neelley
Wilburn Loniel Edelman	Alice Wilson Payne
Rutillia James Eubank	Erika Peters
Charles Campbell Fagg	Bernice Pray
Dimple L. Ford	Lucile Odom Reed
Owen Murle Fowler	Helen Princess Robertson
Vada Mae Garrison	Elizabeth Steger Rodgers
Annie E. Gehring	Fred C. Rollins
Faye George	D'Aun Sammons
Lucie Francis Gregory	Ludie Nell Sawyer
Wade James Hartrick	John Percival Searls
Catherine Elizabeth Hierman	Ruth Smith
Wilda Keithly Hendricks	Ashby Lee Stuckey
Walter DeRossette Henson	Benjamin Reuben Taylor
Hubert Calvin Hervey	Laura Mae Terrell
Charles Volney Hill	Phillip Lee Vardy
Clarence Holman	Prentiss Shelton Viles
Floyd Honey	Grace Watkins
J. W. Jackson	James Edgar Watson, Jr.
Verna Fay Johnson	Esther Grace Wheeler
Aury Billie Jones	Clarence King Whiteside
Mary Alice Kiser	George Yarbrough Wilkins
Elsie Ada Ellen Lawrence	Samuel H. J. Womack
Claudit Lea Ledger	Edna Yonge

Degree of Master of Arts

Tom Burch Morrison (B. A., Texas Technological College); Thesis: "A Social Survey of Lorenzo, Texas."

August 23, 1929

SCHOOL OF AGRICULTURE

Degree of Bachelor of Science

Vaughn D. Corley

Calvin Ritchie

SCHOOL OF ENGINEERING

Degree of Bachelor of Science in the Department Indicated

Zed Glimp, B. S. in E. E.
Nat B. King, B. S. in T. E.
Ross Marion McDonald, B. S. in M. E.

SCHOOL OF HOME ECONOMICS

Degree of Bachelor of Science

Ona Blanche Brown
Bonnie Lee Cook
Fannie Ferguson Davenport
Willie Hawkins

SCHOOL OF LIBERAL ARTS

Degree of Bachelor of Arts

Arvord Milner Abernethy	Louise Long
Naomi Ruth Allison	Hazel Correne Martin
Troy Olene Baker	Leona Fuller Metcalfe
Thomas Franklin Barksdale	Edgar Mae Mongole
Ceril Earl Batton	Horace Grady Moore
Susan Floydene Bryan	Ross Owens
Rosa Mae Burford	Raymond D. Painter
Flossie Mabel Burkholder	Lillard Pass
James Boyce Caldwell	Helena Jo Peters
Thomas Ralph Carpenter	William Monroe Pevehouse
Addie Coffman	Florence Evelyn Pickett
Lula Mae Cook	Violet Mae Pickett
Harold A. Cooper	Albert Aaron Pierce
Mamie Crump	Vera Carver Pinson
Anna Jo DeWald	Zoro B. Pirtle
Etta Lynn Dougherty	Helen Gould Ponder
Leila Jo Dunman	Lloyd Moran Pyeatt
Ethridge William Eagan	James Matthew Rankin
Velma Dale Eubank	Ora Mae Robbins
Margaret Everheart	DeAlva Dudley Roberts
Naomi Ruth Halsell	Opal Pray Rosson
Marian Oberia Hamblen	Walter L. Schenck
Raymond Eric Hamilton	Wallace Harper Scoggins
Anne L. Hammons	William Weldon Snodgrass
Lois Fredna Harkey	Lillian Evelyn Sowell
Pauline Hughett	Sue Alice Rodgers Tubbs (Mrs.)
Ewell Leon Hunt	Frances Margaret Turner
Hugh Edward Killin	Kenneth Charles Ward
Ottis Vaughn Koen	Veda Iona West
Gladys J. Leary	Margaret Hallam Williams
Z. Boaz Lee	Ivo Wilson
Cecil Cullie Logan	John Elliott Wisdom

Degree of Master of Arts

- Eugene Marvin Ballengee (B. A., University of Denver); Thesis: "A Study of the Relationships Found Among Age, Grade, Intelligence, School Marks and Traits of School Children, of the Plainview Public Schools, for the School Year 1928-1929."
- Mary Dale Buckner (B. A., Texas Technological College); Thesis: Chaucer's Redaction of the Character of Cressida."
- Georgia Wilson Dingus (B. A., University of Texas); Thesis: "A Teacher's Syllabus of the Aeneid of Vergil."
- Mary Woodward Doak (B. A., University of Texas); Thesis: "Opportunities Offered by the School of American Research and the Museum of New Mexico for Study and Research in the Social Sciences."
- Eben Luther Dohoney (B. Litt., University of Texas); Thesis: "A Study of the Technique of Registration in American Universities and Colleges."
- Virida Elizabeth Hinton (B. A., University of Texas); Thesis: "The Mexican Problem on the South Plains."
- Ruth Horn (B. A., Texas Technological College); Thesis: "Painting and Sculpture in Texas; Achievement and Prospect."
- J. W. Jackson (B. A., Texas Technological College); Thesis: "The Commissioners Court of Texas, with Special Reference to Lubbock County."
- Minnie Lee Barrett Shepard (B. A., University of Texas); Thesis: "A Study of the Comitatus Relationship in Anglo-Saxon Poetry."
- Francis Thomas Van Pelt (B. A., Texas Technological College); Thesis: "Some Romantic Writers as Revealed in 'The Noctes Ambrosianae.'"
- Alva Dayle Wallace (B. A., Texas Technological College); Thesis: "The Grotesque in the Novels of Charles Dickens."

ROSTER OF STUDENTS

1928-1929, WINTER TERM ONLY

The Fourth Annual Catalogue included only the names of students registered in the Fall term of 1928-29. Names of students who were not registered that term but who were in college in the winter term are listed herewith.

Agnew, Ewell S.	Hamlin
Allison, Roger	Brownwood
Anderson, Louise	O'Donnell
Andrews, Lucille	Lubbock
Azbell, Roy B.	Lubbock
Bailey, R. Z.	Chillicothe
Banner, Leslie	Fort Worth
Barber, Wm. Thomas	Athens
Barrett, Horton	Spur
Barrick, L. D.	Abernathy
Barton, Beatrice	McAdoo
Barton, Raymond	Lubbock
Beardon, Harold	Lamesa
Bearden, Victor	Lamesa
Beauchamp, Frank	Turkey
Bennett, J. C.	Grapevine
Bennett, Tony	Lubbock
Best, Raymond	Claude
Black, H. Crawford	Lubbock
Boyd, J. R.	Lubbock
Boyd, Mrs. Ray	Lubbock
Browder, Byron H.	Weatherford
Brown, John T.	Lubbock
Burkhalter, Henry	Lubbock
Burns, Mary Elva	Lamesa
Bybee, Hazel	Lockney
Cappleman, Edgar	Honey Grove
Carroll, Orbin	Plainview
Champlin, Stewart	Lubbock
Chesher, Mrs. A. C.	Lubbock
Coker, Garland	Athens
Collins, Cecil	Lubbock
Colvin, Charles	Blum
Connally, Wendell	Waco
Cook, Clinton	Post
Crosby, G. C.	Lubbock
Culley, Harrold	Alto
Cullum, C. G.	Hearne
Cummins, B. Maurice	Taft
Curb, Earl	Idalou
Davis, Edna	Olton
Davis, R. C., Jr.	Port Arthur

Denney, Christine	Greenville
Dodson, Mrs. Tom H.	Lubbock
Drexel, Blanche	Lubbock
Edwards, Mary F.	Floydada
Eklund, Lillian	Slaton
Eklund, Sophie	Slaton
Featherston, Charles	Petersburg
Forbes, James W.	Waxahachie
Ford, Frances	Lubbock
Fowler, Leon D.	Bomarton
Franklin, Mrs. Lucile	Lubbock
Freeland, J. Huberne	Lubbock
Freeman, Antone	Roaring Springs
Frost, Marvin F.	Big Spring
Gardner, Dave	Nocona
Garrard, Mrs. T. T.	Lubbock
Gelin, Leona	Lubbock
Gibson, Truett	Carlton
Green, Edneth	Brownfield
Guthrie, Frank	Seymour
Hall, Willie Fae	Loraine
Hanna, Ray	Quanah
Harris, C. L.	McAdoo
Hartman, E. L.	Lockney
Hayes, Clayton	Weatherford
Herndon, Ailsie	Dallas
Hicks, Ward	Memphis
Hinton, Virda	Lubbock
Howard, Marshall	Smyer
Howell, A. Z.	Paducah
Howell, Mabel	Knox City
Hudson, Laska Joy	Spur
Huff, Jewel	O'Donnell
Huff, Warren M.	San Antonio
Hunt, Howard	Lubbock
Hurd, Beulah Hazel	Lubbock
Hutchinson, Mrs. J. T.	Lubbock
Jackson, Clarence	Chandler
Jerden, Glenn	Lubbock
Johnson, Belma Lee	Levelland
Johnson, Charlie M.	Abernathy
Johnston, Jewell B.	Lubbock
Jones, Bernice E.	Eldorado
Kelly, Rohan	Amarillo
Kelsey, Cecil	Lorenzo
Kerbo, Mrs. Vera Cain	Lubbock
Kerr, Emmett	Idalou
Kerr, Horace	Lorenzo
Killingsworth, Roy	Paducah
King, W. A.	Floydada
Larimore, Cecil	Newcastle
Lisemby, T. A., Sr.	Lubbock

Logan, Marie	Lubbock
Loper, Floy	Corsicana
Love, Zora Lee	Vera
Lloyd, Roger	Italy
McCarley, B. C.	Venus
McClain, Carl	Lubbock
McCollom, Gerald	Lubbock
McCreary, Jack	Lubbock
McCrary, Tommy	Vernon
McDonald, Robert L.	Lubbock
McGlothlin, Guy	Lamkin
McGowan, Jack	Leonard
McGuire, Merlyn	Seymour
McKay, Opal	Lamesa
Madole, Lucian	Marlin
Mahoney, C. H.	Lubbock
Manning, Kenneth	Coleman
Mallard, J. W.	Lubbock
Meason, John O.	Lubbock
Meriwether, Carl	Lockney
Metcalfe, Billie	Sulligent
Miller, Lee	Melvin
Montgomery, J. N.	Slaton
Moore, Creola	Brownfield
Moses, Lucille	Lubbock
Myers, Modelle	Lubbock
Nelson, Lomer	Lubbock
Newsom, Garland	Childress
Nowlin, Diamond F.	Rotan
Odom, Ona	Edinburg
O'Hair, Jess B.	Wellington
Oswalt, Imogene	Lubbock
Owen, Mrs. Joe H.	Lubbock
Pace, Alma L.	Newlin
Pair, Carrie	McAdoo
Parker, Ninetta	Lubbock
Parks, Edna	Lubbock
Payne, Winfred H.	Wellington
Pierce, Ulys	Hereford
Pittman, Wilbur I.	Amarillo
Ponder, Helen G.	Amarillo
Preston, Howard G.	Sudan
Price, Sarah	Lubbock
Pryor, Grover W.	Des Moines, New Mexico
Pursley, Granville	Jayton
Roberson, Henry L.	Lorenzo
Roberts, Homer	Sweetwater
Rockey, D. Orvil	Lubbock
Rodgers, Robert S.	Lubbock
Rushman, J. P.	Balinger
Rushing, Cecil	Amarillo
Russell, Ethel Mae	Lubbock

Rutledge, Fay	Kenedy
Sayer, Mrs. Bess	Lubbock
Sayer, Bonnie	Lubbock
Sayer, Doris	Lubbock
Schober, Jake	Fort Worth
Scott, Edward	Granger
Scott, T. P.	Stanton
Shelby, Juanita	Lubbock
Shepard, Janie Ruth	Hale Center
Shepherd, Ronnie J.	Lubbock
Simmons, Allyn	Lubbock
Sloman, Sallie	Vera
Smith, Allan	Crosbyton
Smith, Macon	Lubbock
Smith, Mrs. Pauline	Lubbock
Smith, Seaman	Lubbock
Snider, Joel	Lubbock
Snoddy, Lois	Brownwood
Sparks, Ruth	Lampasas
Spurlock, Myrtle	La Habra, California
Stark, Mrs. Jewell	Plainview
Stewart, Sherman	Floydada
Stobaugh, Camille	Coleman
Stokesberry, Mrs. Willie	San Angelo
Strickel, D. L.	Lubbock
Strickel, Laurine	Lubbock
Summers, Anna	Lubbock
Teal, Bill	Ralls
Townes, Gladys	Amarillo
Turner, Burl	Eastland
Wagner, Charlie	Amherst
Walker, Billy	Pyote
Walker, Salome	Fort Davis
Ward, Dennis	Italy
Wardell, Richard H.	Avery
Wondorf, Adolphus	Waco
Williams, D. V.	Granger
Wilson, Robert S.	Anton
Wilson, Mrs. Roscoe	Lubbock
Woody, O. A.	Littlefield
Yager, Donzula	Lubbock
Yarbrough, Mrs. C. B.	Lubbock
Young, Gordon	Tulia

SPRING TERM, 1928-1929

Names of students who were not registered in either the preceding Fall or Winter terms, and whose names were therefore not included in the Fourth Annual Catalogue are given herewith.

Anderson, Kermita	Justin
Barron, Mrs. F. E.	Lubbock
Bates, Roy	Nashville, Tenn.
Benningfield, Marie	Mesquite
Bridgers, Evaline	Lampasas
Brite, Weldon	Oklaunion
Brown, Leona Mae	Lubbock
Buie, James M.	Fort Worth
Byrd, Harvey Cecil	Grosvenor
Caldwell, Mrs. J. B.	Slaton
Coe, Robert F.	Healdton, Okla.
Combest, Ruth	Olton
Cook, Lula Mae	Wellington
Davenport, I. C.	Weatherford
Dobkins, Glenn	Roaring Springs
Futhey, Jesse	Levelland
Garrett, Mrs. D.	Lubbock
Goodpasture, Winsome	Lubbock
Harkey, Wayne	Lubbock
Hastings, Robert L.	Lubbock
Head, Mrs. J. W.	Crane
Holdar, L. C.	Temple
Howell, Hobson	Paducah
Hunter, Grace	Colorado
Isom, Jessie	Idalou
Isom, Jimmie	Idalou
James, Mrs. Jessie	Lubbock
Jenkins, Dena	Lubbock
Jenness, Velma	Lubbock
Jones, Harold	Roaring Springs
Kersey, C. C.	Fort Worth
Kuykendall, Elizabeth	Cherokee
Lauderdale, Edward	Lubbock
Lawrence, Theresa	Gatesville
Morrison, Sue	Lubbock
Nimmo, Jack	Henrietta
Perkins, Rena	Lubbock
Perkins, Lena	Lubbock
Perry, E. L.	Ardmore, Okla.
Porter, Gladys	Littlefield

Rankin, J. M.	Ralls
Rector, Joe	Marfa
Roberts, Chas. W.	Ropesville
Roberson, Lady Clare	Lubbock
Scott, Clarice	Idalou
Scott, Ruby	Idalou
Skeen, Mrs. S. E.	Lubbock
Smallin, Guy	Abernathy
Smith, Duskin	Sulphur Springs
Smith, Eula	Crane
Strout, Mrs. A. L.	Lubbock
Stimson, Vernelle	Snyder
Stuckey, Ashley	Bishopville, S. C.
Tarter, Alice	Chillicothe
Taylor, E. J.	Snyder
Thompson, Claude	Lubbock
Thompson, Clyde	Lubbock
Trostle, Mrs. Nellie	Lubbock
Walker, Lewis	Lubbock

SUMMER SESSION, 1929

Abernathy, Avord M.	Canadian
Abernathy, James	Canadian
Adair, Mrs. E. T.	Lubbock
Adams, Elizabeth	Lubbock
Adams, J. W.	Grand Prairie
Adams, Mrs. J. W.	Grand Prairie
Agee, Inez	Stamford
Albritton, Fay	Hamlin
Alexander, Birdie	Lubbock
Alexander, Ethel	Lubbock
Alexander, R. A.	Breckenridge
Allredge, Anna Maye	Lubbock
Allredge, Louis Harvey	Crosbyton
Allen, Mercedes	Anton
Allingham, R. B.	Amarillo
Allison, Naomi	Starendon
Allison, R. Alvica	Levelland
Allison, Roger	Brownwood
Alston, Louise	Tatum, New Mexico
Alsup, Adel	Abernathy
Altman, Winnie	Lubbock
Amburn, E. E.	Wellington
Anderson, Louise	O'Donnell
Anderson, Revere H.	Haskell
Andress, Jesse	Lubbock
Andrews, Lucille Mary	Lubbock
Anthony, Autie	Memphis
Armes, Irene	Slaton
Arnett, Alyne	Smyer
Arnett, Mildred	Anton
Arnold, Inez	Roscoe

Arnold, Mrs. Ola	Turkey
Ashmore, Lela	Lubbock
Askew, Mary Frances	Anton
Atchison, C. J.	Lubbock
Austin, Mrs. Jewel	Stamford
Averyt, Gladys	Corsicana
Averyt, Lois	Corsicana
Averyt, Mrs. Pearl	Corsicana
Awbrey, Frances	Lorenzo
Ayer, Mina	Wilson
Azbell, Roy B.	Lubbock
Azbill, Mrs. Raye	Graham
Bachman, Mariana	Weatherford
Bachman, Mrs. Ray	Weatherford
Bacon, Virginia	Lubbock
Bagley, Mildred	Roaring Springs
Bailey, R. Z.	Chillicothe
Baily, Clara Elizabeth	Chillicothe
Baird, Elizabeth	Vernon
Baisden, Mrs. V. Mae	Spur
Baker, Adria	Lorenzo
Baker, Coleman C.	Seagraves
Baker, Dora	Dimmitt
Baker, E. F.	Plainview
Baker, Troy Olena	Lubbock
Ball, Earline	Lubbock
Ballard, J. A.	Newlin
Ballengee, E. M.	Plainview
Ballenger, Mrs. C. M.	Lubbock
Ballew, Vera Alta	Lubbock
Barker, Willie Mae	San Angelo
Barksdale, T. F.	Chico
Barnett, Beulah	Quanah
Barron, Ethel	Lamesa
Barron, Mrs. F. E.	Lubbock
Barry, La Verne	Olney
Bartlett, Hilma	Lubbock
Bartlett, Wilma	Lubbock
Baskin, Margaret	Lubbock
Baskin, W. E.	Lubbock
Bates, Louise	Lubbock
Bates, Roy M.	Lubbock
Batton, Ceril E.	Spearman
Baucom, Olivia	Haynesville, Louisiana
Bavousette, Roe	Camp Springs
Bayless, Mary Lou	Lubbock
Bayless, Roscoe Irvin	Lubbock
Baze, Mrs. M. L. H.	Tahoka
Beard, Edna D.	Brownfield
Bearden, A. G.	Lamesa
Bearden, Mrs. Irene	Lamesa
Bearden, Pearle J.	Lamesa
Bearden, Wendell	Lamesa
Beaver, Leo H.	Fluvanna

Becton, Mabel	Becton
Bell, H. M.	Lubbock
Bell, Lennon G.	Lubbock
Bell, Margaret	Brownfield
Bell, Nina	Lubbock
Bell, Ruth Dorothy	Lubbock
Benefield, S. L.	Lubbock
Bennett, G. R.	Stamford
Bennett, Mrs. J. W.	Lubbock
Bennett, Rubye	Gatesville
Bennett, Tony	Lubbock
Bentley, Mrs. C. B.	Lubbock
Bentley, C. B.	Lubbock
Bentley, Homer D.	Shallowater
Bergfield, Julius L.	Dallas
Bergholm, Mrs. C. O.	Plainview
Berry, Elizabeth Ann	Kerens
Berryhill, Violet	Milford
Biggers, W. D.	Lockney
Biggs, Allie	Spur
Bilbo, Bessie Mae	Robert Lee
Binnion, Betty	Sherman
Birdwell, Mrs. E. L.	Levelland
Birdwell, Lurie	Nacogdoches
Bishop, Aubrey	Wingate
Bishop, Delma	Post
Black, Harold Crawford	Lubbock
Blackstock, Mamie	Brownfield
Blankenship, Tava G.	Lubbock
Blanton, Ella Mae	Ralls
Blanton, Jessie	Tolar
Bledsoe, Maude	Clarendon
Blocker, Horace	Stanton
Blythe, Mrs. R. S.	Sheffield
Boles, F. O.	Littlefield
Boone, Mildred	Lubbock
Boczer, Lester	Mineola
Boozer, Varina	Lubbock
Borden, Iris	Dickens
Bourland, J. C.	Coleman
Bostick, Albert	Levelland
Boverie, Bess	Wellington
Bowers, Jessie	Bledsoe
Bowlin, H. C.	Lubbock
Bownds, Mrs. Ione	Lorenzo
Box, R. A.	Littlefield
Boyd, Mrs. A. K.	Sudan
Boyd, Kate	Lubbock
Branton, Mrs. Effie	Knox City
Brashear, Maurice	Lubbock
Braswell, Clair Marie	Clarendon
Bray, Marian	Lubbock
Bridgers, Evaline T.	Lampasas
Brite, Maurine	Oklahoma
Brown, A. B.	Lubbock

Brown, Blanche	Cisco
Brown, Ethel Deane	Cisco
Browne, Faye	Tahoka
Brown, Leona	Lubbock
Brown, Lucille	Dunn
Brown, Mary Parker	Lubbock
Brownlee, Neva	Hurlwood
Bruce, Loraine	Amarillo
Bryan, Sue	Lubbock
Bryant, Vivian	Seagraves
Buchanan, Emma Sue	Lockney
Buchanan, Lila	Lubbock
Bullington, Roy	Wellington
Bumpass, Mrs. R. D.	Hawley
Bumpass, Faye LaVerne	Lubbock
Burckhardt, Bland	Lubbock
Burdette, R. L.	Goldthwaite
Burdette, Mrs. R. L.	Goldthwaite
Burford, Mrs. Mae O.	Lubbock
Burford, Mrs. Rosa Mae	Lubbock
Burkholder, Flossie	Duncan, Oklahoma
Burkholter, Henry	Lubbock
Burleson, Gertrude	Anton
Burney, Alice	Tehuacana
Burroughs, Myrtle	Lubbock
Bussey, Laurene	Lubbock
Butler, Rosa Lena	Weatherford
Butts, Hubert	Quanah
Bybee, Hazel	Lubbock
Byrd, Harvey C.	Lubbock
Byrd, Leonard	Quinlan
Cade, Grace	Chandler
Caldwell, J. B.	Slaton
Caldwell, Mrs. J. B.	Slaton
Calley, Margaret	Shallowater
Cameron, Lille V.	Jacksonville
Camp, Rosa M.	Gorie
Campbell, Alice	Lubbock
Campbell, Beatrice	Estelline
Candler, R. I.	Coleman
Cantrell, Mae	Carlton
Cappleman, Edgar	Honey Grove
Cargile, Mrs. Lauro	Lubbock
Cargile, Lee	Lubbock
Carmichael, Carlton	Lubbock
Carmichael, Loveta	Lubbock
Carpenter, Thos. Ralph	Lubbock
Carsey, Mrs. Lucille	Lubbock
Carsey, W. Arnold	Lubbock
Carter, Emmett	Elgin
Carter, May Field	Brownwood
Carter, Ruth	Lubbock
Cassel, Lorene	Lubbock
Chambliss, Leora	Marble Falls

Chapman, Emma	Lubbock
Chapman, Georgia A.	Lubbock
Chapman, Landrum W.	Lubbock
Chenoweth, Elizabeth	Panhandle
Chesney, H. Johnny	Colorado
Chesser, Bristol	Stanton
Chesser, Mrs. Joyce	Stanton
Childress, O. R.	Archer City
Childress, Mrs. O. R.	Archer City
Choate, Mattie Belle	Clarendon
Clark, Lawrence W.	Idalou
Clark, U. U.	Idalou
Clem, Annelle	Lubbock
Clemons, Hardy P.	Goodnight
Clemons, Nora	Lubbock
Clifton, Mrs. Eva	Lubbock
Cloud, Thelma	Albany
Clutter, Bill	Bonham
Coates, J. C.	Covington
Coe, L. E.	Healdton, Oklahoma
Coe, Robert F.	Healdton, Oklahoma
Coffman, Addie	Idalou
Coffman, Dott	Idalou
Cogdill, Mrs. Fay M.	Littlefield
Cole, Rachel Louise	Ralls
Coles, Ewell	Colorado
Collins, Earl B.	Clovis, New Mexico
Coltharp, Faye	Slaton
Combest, Ruth	Olton
Cone, Eunice	Lubbock
Cone, Lula	Lubbock
Connell, C. H.	Denton
Conner, Preston	Lubbock
Cook, Bonnie Lee	Levelland
Cook, Finis	DeLeon
Cook, Gertrude H.	San Antonio
Cook, Gordon	Post
Cook, Inez	Wellington
Cook, Lula Mae	Wellington
Cook, Tressie	Draw
Coon, Helen	Lubbock
Cooper, Harold A.	Novice
Cooper, Mrs. Lewis B.	Midland
Cooper, Mrs. J. R. B.	Lubbock
Copeland, Marie	Lefors
Copeland, Mrs. O. R.	Lubbock
Corkern, Mrs. Florence	Weatherford
Corry, Mrs. O. C.	Lubbock
Couch, Mrs. H. L.	Childress
Couch, Imogene	Comanche
Couch, Willie	Oklaunion
Covington, Ethel	Augusta
Cowan, Glee	Lorenzo
Cowart, Juanita	Lockney

Cowling, Allye Belle	Lubbock
Cox, Leah	Lubbock
Cox, Willie C.	Sweetwater
Craven, Mrs. L. C.	Lubbock
Cravens, Viola	Childress
Crawford, Ethel	Portales, New Mexico
Criswell, Delmer R.	Buckholts
Crites, Harold	Lubbock
Cross, J. Hollie	Lubbock
Cross, Miriam	Silverton
Crume, Viva Odine	Tahoka
Crump, Mamie	Shallowater
Cude, Mrs. Gusceita	Lubbock
Culp, Ray	Pearl
Cunningham, Allen	Taylor
Cunningham, Corine	Taylor
Curry, Anna Beth	Seminole
Dale, Mildred	Seagraves
Daniel, Inez	Lovington, New Mexico
Daniell, Lois	Seminole
Dannelley, Mrs. Hugh	Childress
Davidson, Opal	Mineral Wells
Davidson, Durell	Mineral Wells
Davis, Blanche	Lubbock
Davis, Ada J.	El Paso
Davis, Edna Pearle	Lubbock
Davis, Mrs. M. Crawford	Childress
Davis, Mabel	Dallas
Davis, Robert Foster	Rule
Davis, Rose	Lubbock
Davis, Roy C.	Ralls
Davis, R. Foster	Rule
Davis, Sam H.	Jermyn
Dawkins, E. F.	O'Brien
Dawson, G. E.	Tulia
Day, J. Henry	Seagraves
Dean, Bernice	Lubbock
Dean, Bert, Jr.	Anson
Dean, Horace	Dayson
DeLashaw, Fred	Lubbock
Dennis, Loree	Abilene
Derrick, Elsie	Idalou
Devenport, Silas	Snyder
DeWald, Anna Jo	Lubbock
Dickerson, G. Chas.	Foss, Oklahoma
Dickinson, Gordon	Lubbock
Dickson, Travis	Roby
Dingus, Mrs. W. M.	Lubbock
Dison, Everitt	Canyon
Dixon, Carrie	Bellerrie
Doak, Mary W.	Lubbock
Doak, Stella M.	Stamford
Dockray, Felice	Lubbock
Dodson, Mrs. Tom H.	Lubbock

Dohoney, E. L.	Lubbock
Dominy, Edith	Paducah
Donnelly, Adelaide	Dallas
Doss, Bernice	Seminole
Dougherty, Lynn	Levelland
Dougherty, Melba	Austin
Douglas, Mrs. R. C.	Lubbock
Douglass, Alva L.	Muleshoe
Douthit, Lowell	Tahoka
Drake, Georgie Lee	Lubbock
Drexel, B. H.	Lubbock
Drury, Lloyd	Olustee, Oklahoma
Du Bois, Lucille	Jewett
Duke, Mabel Ruth	Claude
Dumas, Elizabeth	Brownfield
Duncan, J. A.	O'Donnell
Dunham, Jim	Weslaco
Dunlap, W. R.	Lubbock
Dunlap, Winnie Lee	Lubbock
Dunman, Jo	Coleman
Dunn, Mary	Lubbock
Dunn, Raymond	Slaton
Duprey, Genevieve	Montrose, Colorado
Duprey, Mrs. Louise R.	Waco
Duval, Mrs. George	Lubbock
Dyer, J. M.	Waurika, Oklahoma
Dyer, Wilma	Lubbock
Eagan, E. W.	Lubbock
Eagan, Mrs. Ethridge	Lubbock
Earnest, D. C.	Eastland
Eddleman, Ruby Grace	Abernathy
Edwards, D. A.	O'Donnell
Edwards, Mary Frona	Daughtery
Ehresman, Jessie	Kress
Eklund, Lillian	Slaton
Eklund, Sophie	Slaton
Elliott, Roy	Winnboro
Ellis, A. R.	Levelland
England, Helen	Hillsboro
English, Mrs. Avon B.	Lubbock
Estes, Jessie May	Midland
Eubank, Rue	Seminole
Eubank, Velma	Putman
Eubanks, Mrs. B. Pearle	Lubbock
Eustace, Tommie R.	Teague
Evans, Mrs. A. W.	Lubbock
Evans, Betty Sue	Comanche
Evans, Cynthia	Abilene
Evans, Elizabeth	Mangum, Oklahoma
Evans, Golda	Comanche
Evans, Marion L.	Lubbock
Evans, Vera A.	Chillicothe
Everett, Jordan	Lampasas
Everheart, Margaret	Lubbock

Fann, Blanche	Lubbock
Farmer, Winfry	Loving
Farrar, G. L.	Wellington
Faubion, Alvin	Wilson
Featherston, Lou	Trickham
Feazel, Mary Ann	Lorenzo
Felty, Maude	Levelland
Ferguson, Lillian E.	Lorenzo
Ferguson, Roy S.	Kingsville
Ferrell, Mrs. Mamie H.	Lubbock
Ferrell, Zena	Lubbock
Fette, Margie	Muenster
Fickas, Addie	Lubbock
Fickas, W. R., Jr.	Lubbock
Fikes, Scott	Granger
Fikes, W. R.	Granger
Fincher, Wm. Allen	Hurlwood
Flache, Lucille	Brownfield
Florence, Eunice	Slaton
Foote, Fay	Sudan
Forbess, Ruth	Lubbock
Ford, Frances	Lubbock
Ford, M. Hollis	Waco
Ford, Roxana Ruth	Lubbock
Forman, Roy Ellis	Teague
Fort, Addie Belle	Lubbock
Foster, Ada	Lubbock
Foster, A. May	Lockney
Foster, Georgia	Lubbock
Foster, Mrs. John P.	Stratford
Franklin, Homer	Soper, Oklahoma
Franklin, Mrs. Lucille	Lubbock
Frazier, Harold	Farmersville
Freeland, E. Y.	Lubbock
Freeman, Belie	Albany
Fry, Bill	Dallas
Fry, Thera O.	Dallas
Fuller, Jessie	O'Donnell
Fuller, Mayme Lou	Wellington
Fullerton, Laura	Rogers, New Mexico
Furman, C. W.	Borger
Furman, Mrs. Dollie	Borger
Gable, Lois	Lubbock
Gable, Loraine	Lubbock
Gable, Mozelle	Lubbock
Gaines, Nola	Gustine
Galloway, Imogene	Tahoka
Galloway, Joe	Sulphur Springs
Gamel, Mary Lois	Lubbock
Garrett, Mrs. Dochia	Lubbock
Garrett, Mrs. Myrtle	Big Spring
Garrett, Horace	Lubbock
Garrison, Hill	Lubbock
Gary, Bonnie	Dunn

Gaudy, Fanny Ruth	Crystal Falls
Gault, Helen	Bellevue
Gault, Mary	Bellevue
Gault, Nell	Bellevue
Gault, Paul V.	Lubbock
Gentry, Grace	Carbon
Gentry, Lillie	Carbon
Gibbs, Myrtle	Loco, Oklahoma
Gibson, Ralph	Alba
Giddens, T. W.	Snyder
Gilbert, Gladys	Lubbock
Gilbert, Vesta Lee	Roby
Gilbert, Wendell	Lubbock
Giles, Fred	Abilene
Gilkerson, Vencie	Lubbock
Gill, Dixie Ellen	Morton
Gill, Faye	Morton
Gillum, Mrs. W. S.	Lubbock
Glazner, Palmien R.	Anson
Gordon, Lynn Gray	Lubbock
Gordon, Wilson Harold	Lubbock
Gossett, Mrs. Pauline	Ralls
Gotcher, Wilma	Ropesville
Grantham, Connie	Lubbock
Grantham, Rowena	Lubbock
Graves, Eileen	Lubbock
Graves, R. T.	Lubbock
Greathouse, Mary	Tahoka
Green, Della Doris	Lubbock
Green, Edneth	Lubbock
Green, J. Logan	Tokio
Green, LeThaggar	Lubbock
Green, Mrs. Lloyd	Wheeler
Green, Lola	Dickens
Green, L. R.	Wheeler
Greer, Georgia Belle	Athens
Griffith, Homer	Lubbock
Griffith, Mrs. Neal	Lubbock
Griggs, Minter M.	Lubbock
Griggs, Joseph	Lubbock
Grimsley, Clyde	Lubbock
Ground, Anne	Wichita Falls
Groves, Fred A.	Anton
Gulledge, Mrs. Mary	Lubbock
Gunn, Fern	Lubbock
Hale, C. L.	Lubbock
Hale, J. E.	Thorpe Springs
Hale, Leon	Memphis
Hale, Virginia	Memphis
Hale, Mary	Bailyboro
Hall, Ewell	Memphis
Hall, Leon	Lubbock
Hall, Vera	Slaton
Hamilton, Doyle	Huckabay

Hamilton, Inez	Huckabay
Hamilton, R. E.	Lubbock
Hamkins, Willie	Abilene
Hammons, Anne	Gordon
Hampton, Willie	Frederick, Oklahoma
Halsell, Naomi	Lubbock
Hancock, Mrs. Addie	Jayton
Hancock, Elizabeth	Lubbock
Hancock, Ervin	Wilson
Hancock, Velma Ferne	Tahoka
Harbison, Max	Lubbock
Hard, Laura	Shallowater
Harden, Raymond E.	Albuquerque, New Mexico
Hardin, Evelyn	Lubbock
Hardin, Lois	Quanah
Harding, Sterling	Stanton
Hardy, Paul	Bonham
Hargis, Paul M.	Lubbock
Hargrove, Pauline	Colorado
Hargus, June B.	Eastland
Harkey, Lois Fredna	Jayton
Harman, Audrey	Lubbock
Harmonson, Mrs. Van	Lubbock
Harper, Geneva	Pampa
Harrell, Jessie Merle	Belton
Harrell, Valera	Ralls
Harris, Estelle	Roby
Harris, Lorelle	Roby
Harris, Mildred	Lubbock
Harrison, Homer	Lubbock
Harrison, Ralph	Lubbock
Harrison, Wilma	Roswell, New Mexico
Harrison, Uva Loyce	Post
Hart, Mrs. Lois Nelson	Lubbock
Harvey, Eunice	Quanah
Harville, Grace	O'Donnell
Harwell, Juanita	Memphis
Hastings, Merlin	Roscoe
Hatchett, Chas. T.	Lamesa
Hawthorne, Gale	Southland
Hawthorne, Willie Mae	Lubbock
Haynes, Mrs. S. N.	Sidney
Hays, B. M.	Tahoka
Hays, Mrs. B. M.	Tahoka
Hays, Tellse M.	Lubbock
Hays, Reupert	Lubbock
Hazlewood, J. Royce	Lubbock
Head, Mrs. J. O.	Crane
Headstream, Clide	Ropesville
Headstream, Mrs. Clide	Ropesville
Headstream, Maybelle	Roby
Headstream, Vern	Ropesville
Heard, Pauline	Crosbyton
Heath, Lottie Mae	Lamesa
Hefner, Evelyn	Lubbock

Hefner, Juanita	Lubbock
Heizer, Lola Rae	Hobbs, New Mexico
Hellums, Bonnie	Belton
Hellums, Fairy Lee	Belton
Henderson, Carrie Lou	Byers
Henderson, Mrs. L. A.	Tahoka
Henderson, Maurine	Lubbock
Hendricks, Cleo	Lubbock
Hendrix, Winnie	Southland
Herrign, Zelpha	Quanah
Herring, E. W.	Mt. Calm
Herver, H. C.	Corsicana
Hestand, Jo	Slaton
Hester, E. W.	Lubbock
Hewlett, J. P.	Wilson
Hicks, Lawrence	Snyder
High, Ben	Dallas
Hill, Loydell	Lubbock
Hill, Ruby	Lubbock
Hines, M. D.	Colorado
Hines, Mrs. Myra	Lubbock
Hinton, Veida	Lubbock
Hitchcock, Jesse R.	Knox City
Hitchcock, Mrs. Odell	Knox City
Hodge, Alma	Stephenville
Hodges, Faye	Goodlett
Holcomb, James G.	Snyder
Holden, Mrs. W. C.	Lubbock
Holland, Colene	Littlefield
Holland, Pauline	Lubbock
Holliday, Alton W.	Nashville, Arkansas
Holloman, Mrs. Alice	Corsicana
Holloway, Mrs. Ruby	Lubbock
Holman, Mrs. Maurine	Levelland
Holmes, Mrs. Lila	Lubbock
Holstead, Katherine	Waco
Holt, Horace	Sudan
Holt, Irene	Idalou
Honea, Mrs. Bernice	Anson
Hooten, Emma L.	Shallowater
Hooten, Roy L.	Shallowater
Hopping, Lillian	Lubbock
Horne, O. C.	Lubbock
Horstmann, Hugo	Buckholts
Horton, Gladys	Hale Center
Hoskins, Jack	Denton
Howard, Horace	Kemp
Howard, Marshall	Smyer
Howell, Emma Gene	El Paso
Howell, Mable	Knox City
Howell, Mattie Sue	Olton
Hudson, Lasko Joy	Lubbock
Huff, Jewel	O'Donnell
Huff, L. E.	Lubbock
Hughs, Lois A.	Vera

Hughett, Mendal	Lubbock
Hughett, Pauline	Lubbock
Hulse, Grace	Brownfield
Hulse, Rowena	Brownfield
Hulse, Ethel	Dickens
Humphrees, Daisimay	Lubbock
Hunter, Connie	Olustee, Oklahoma
Hunter, Grace	Colorado
Hurd, Hazel	Vera
Hurd, Lula	Vera
Hurd, Mildred	Vera
Inman, Maggie Lee	Hale Center
Irion, Clyde	Dallas
Irion, Jim E.	Dallas
Jackson, Cleo	Lubbock
Jackson, Florence	Lubbock
Jackson, Helen	Lubbock
Jackson, Jesse Homer	Amherst
Jackson, Horace A.	Memphis
Jackson, J. W.	Lubbock
Jackson, Lela Marie	Lubbock
Jackson, Rachel May	Lubbock
Jackson, Stella B.	Lubbock
Jackson, Mrs. W. L.	Lubbock
James, Gordon	Lubbock
James, Mrs. Jessie	Lubbock
Jennings, Evelyn	Lubbock
Jennings, Grace	Lubbock
Jennings, Grady	Lubbock
Jenkins, Andrew B.	Sudan
Johnson, Belma Lee	Levelland
Johnson, Doris	Dunn
Johnson, Joyce	Lubbock
Johnson, Mrs. M. C.	Lorenzo
Johnson, Nathan	Seagraves
Johnson, Vance	Memphis
Johnson, Verna	Eastland
Johnston, Grace	Stinnett
Johnston, J. B.	Lubbock
Jones, Allyne	Seagraves
Jones, G. L.	Lindale
Jones, Gladys Marie	San Angelo
Jones, Laura B.	Bee House
Jones, Lula	Lubbock
Jones, Nila	Belton
Jones, Orval Iva	Eola
Jones, Paul K.	Stanton
Jones, Ruth E.	Abernathy
Jordan, Doyle	Egin
Jordan, J. H.	O'Donnell
Jordon, Lucille	Lubbock
Kane, Edna	Moran
Kane, Wilda	Moran

Karnes, Lois	Lubbock
Keaster, Effie Lou	Lubbock
Keaster, Vivian	Lubbock
Kelley, Anna Lou	Petersburg
Kemp, Faye	Lubbock
Kennedy, Ruby	Lamesa
Key, Henry G.	Mineral Wells
Killian, Mrs. Oscar	Slaton
Killian, Marguerite	Slaton
King, Agnes	Corsicana
King, Nat B.	Laredo
Kitching, Ezra K.	Turkey
Knight, Martha	Roswell, New Mexico
Knipp, Dorothy	Lubbock
Knox, Jimmie May	Happy
Koen, Ottis V.	Lubbock
Kolb, Mrs. J. W.	Lubbock
Kopecky, William M.	Wilson
Kral, Anna	Roby
Kral, Edith R.	Roby
Krueger, Mrs. J. T.	Lubbock
Laas, Fannie Cash	Canyon
Laas, O. J.	Brookshire
Laird, Pearle	Lorenzo
Lancaster, Anna Mae	Spur
Lancaster, Jess W.	Fort Worth
Lane, Mrs. C. W.	Levelland
Lassiter, Oattie Maud	Spur
Latham, Velma	Woodson
Lattimore, Mrs. Mattilee	Lubbock
Lauderdale, Edward	Lubbock
Lawson, Florence	Lubbock
Lawley, Lola	Big Spring
Lawley, Opal	Big Spring
Lawrence, Ben	Lubbock
Lawrence, Elsie	Lubbock
Lawrence, Hilda	Lubbock
Lawrence, Theresa	Gatesville
Lawrence, Violet	Lubbock
Leach, Price	Plainview
Leary, Gladys	Estelline
Leaverton, Marjorie	Lubbock
Lee, Josie Kay	Lubbock
Lee, Z. B.	Sudan
LeFevers, Riley H.	Mt. Calm
Leslie, Florine	Lubbock
Leverett, Jesse B.	Lubbock
Lewis, Mrs. Hazel	Ozona
Lewis, Marie	Morgan Mill
Lewis, Olney Garland	Ozona
Lewis, Sarah Maude	Lubbock
Lile, Macie	Dimmitt
Liles, Estelle	Amherst
Lindley, Mrs. D. T.	Lubbock

Lindley, Ida Louise	Wortham
Lindley, Roy C.	Cisco
Lindley, Vivian	Lubbock
Lindsey, Katherine	Lubbock
Link, Ruth	Tahoka
Lisemby, T. A.	Lubbock
Listen, Clarence	Shamrock
Liston, Lovic M.	Ringgold
Littlefield, Alyce	Santo
Lockhart, Jess	Lubbock
Lockhart, Mary	Lamesa
Lockwood, Albert	Lubbock
Lockwood, Daisy	Lubbock
Lodal, Olaf	Gordon
Logan, Cecil C.	Lubbock
Logan, Marie	Lubbock
Logan, Zula Mae	Lubbock
Loper, Floy	Corsicana
Love, Zora Lee	Vera
Love, Lois	Lubbock
Lovell, Harvey L.	Dickens
Lowrance, W. E.	Knox City
McArthur, Wilma	Spur
McClain, Carl	Lubbock
McClenny, Inez	Lubbock
McClure, Raymond	Wellington
McCurdy, Mary Lee	Hamilton
McDaniel, Mrs. Willard	Lubbock
McDearmon, H.	Lubbock
McDearmon, Mrs. R.	Lubbock
McDonald, Milton R.	McAdoo
McFarland, Herschel	Littlefield
McFarland, Lora Mae	Frona
McGanghey, Nannie	Vera
McGonagill, Dorys	Tahoka
McGuire, Merlyn	Seymour
McIlhaney, Jess	Lubbock
McIlvain, Lucia	Lubbock
McInturff, Oma	Levelland
McIver, Mary	Trickham
McJunkin, Walter	Houston
McKee, Lillian	Ralls
McMordie, Pauline	Gatesville
McNabb, Margaret	Lubbock
McWhorter, Garlan G.	Wilson
McNeil, Mary Louise	Lubbock
McWilliams, J. R.	Whiteflat
McWilliams, W. D.	San Benito
Maddox, Don	Lubbock
Magee, Lawrence	Lubbock
Manning, Fannie	Ralls
Marcom, O. W.	Levelland
Marcom, Mrs. O. W.	Levelland

Marcom, P. T.	Levelland
Martin, Betty	Crcsbyton
Martin, Emma Gene	Knox City
Martin, Franklin Y.	Lamesa
Martin, Guy	Knox City
Martin, Harold	Lubbock
Martin, Hazel C.	Lubbock
Martin, Robert	Graham
Mast, Henrie E.	Lubbock
Mast, Jane	Lubbock
Mathis, Kary	Lubbock
Matthews, Ruth	Littlefield
May, Eva	Lubbock
Mayes, Eunice Irene	Austin
Meador, R. Bonner	Abilene
Meharg, Agnes	Turnersville
Meharg, Mrs. L. C.	Turnersville
Meredith, Grace	Coolidge
Merrell, Jerome	Whitedeer
Metcalfe, Mrs. Leona	Lubbock
Meyers, Raymond	Lubbock
Middleton, Mary Louise	Lubbock
Millard, Myra	Canadian
Miller, Gertie	Ralls
Miller, J. E.	Hale Center
Miller, Lenore	Bellevue
Miller, Mayme Lee	Levelland
Miller, Mildred	Lubbock
Mills, Edna	Dallas
Mills, Ellis M.	Lorenzo
Mills, Gordon G.	Lorenzo
Mills, Zelma	Dallas
Millsap, Jimmie	Clarendon
Millsaps, Hollie Jess	Lamesa
Mitchell, Gladys	Tell
Mongole, Edgar Mae	Clarendon
Montalbo, Daniel	San Antonio
Montgomery, Myra	Decatur
Moody, Haden	Becton
Moore, Alma	Tyler
Moore, Bruce H.	Tyler
Moore, Fred H.	Lubbock
Moore, Horace Grady	Floydada
Moore, Roy L.	Loop
Moorhouse, Frances	Benjamin
Morgan, James H.	Mission
Morris, Mrs. Roy	Lubbock
Morrison, Mrs. Grady	Wink
Morrison, Sue	Lubbock
Morrow, Gordon	Morton
Morse, Bertha	Trent, South Dakota
Moses, Lucille	Lubbock
Mounts, Maetta	Hale Center
Moxley, Lucille	Lubbock
Murray, Corene	Lorenzo

Murray, Virginia	Lubbock
Murrell, Hettie	Shallowater
Murrell, Johnnie	Shallowater
Myers, B. Albert	Abernathy
Myers, Modelle	Seagraves
Nance, Virginia	Cleburne
Nash, Leon	Lubbock
Nash, R. M.	Slaton
Neale, Mrs. Mamie	Lubbock
Nelson, Opal	Floydada
Nettles, W. T.	Waco
Newell, Eleanor	Post
Newman, Erna Mae	Dumont
Newman, Lola	Goodlett
Newman, Vernie	Abilene
Newman, Walter	Dumont
Newsom, Fred J.	Littlefield
Newsom, G.	O'Donnell
Newsom, Garland	Childress
Newsom, Reva	Brownfield
Newton, Ruth Catherine	Idalou
Nix, Ganie	Lubbock
Noah, Joe	Lubbock
Noble, Earle	Wichita Falls
Noble, Mrs. Terry	Lubbock
Noel, Eudora	Ralls
Norris, Henry	Texico, New Mexico
Nunn, Addie Lou	Marlin
Odom, James A., Jr.	Memphis
Oglesby, Vivian	Lubbock
Oliver, Clara	Huckabay
O'Neal, H. B.	Abernathy
O'Neill, Nance	Lubbock
Owen, Lucy Dee	Lubbock
Owen, Mary Gene	Lubbock
Owens, Ross	Lubbock
Painter, Raymond	Lubbock
Pair, Carrie	McAdoo
Palmer, Delia	Hornbeck, Louisiana
Palmer, Ethel	Hornbeck, Louisiana
Pannell, Robbie	Knox City
Parker, Jesse Lee	Lubbock
Parker, Ninetta	Lubbock
Parker, Thalia	Lubbock
Parks, Edna	Lubbock
Parrish, Ruby	Lubbock
Patterson, Mrs. H. T.	Lubbock
Patterson, Maidae Lee	Lubbock
Patterson, Nina Mae	Nevada
Penney, Ruby	Lubbock
Perkins, Dena	Brownfield
Perkins, Lena	Brownfield
Perry, Buen	Shallowater

Perry, E. L., Jr.	Ardmore, Oklahoma
Perry, Irene	Lubbock
Perser, Lola	Crosbyton
Peters, Helena	Uncha, New Mexico
Petty, Russell	May
Pevehouse, Myrtle	Lubbock
Pevehouse W. M.	Lubbock
Peveler, Catherine	Granbury
Pickett, Florence	Lubbock
Pickett, R. C.	Kempner
Pickett, Violetmae	Lubbock
Pickle, Alice	Big Spring
Pierce, Albert A.	Shallowater
Pierce, Vivian Lee	Wellington
Pinkerton, Mrs. J. W.	Lubbock
Pinson, Mrs. Bert	Lubbock
Pinson, Mrs. Ray	Abernathy
Pirtle, Billie Nell	Lubbock
Pirtle, Zenna B.	Draw
Polk, Johnie	Lubbock
Polk, Lucile	Clarendon
Ponder, Helen G.	Amarillo
Pool, Juanita	Lubbock
Pool, Verna	Hale Center
Porter, Gladys	Littlefield
Porter, Martha	Floydada
Porter, Tiney	Snyder
Pounds, Davis	Lubbock
Power, Mrs. Mary A.	Austin
Powers, Elliot	Overton
Powers, Ruby A.	Lubbock
Powers, Wanona	Lorenzo
Powers, Warren	Lubbock
Pressley, Kate	Lubbock
Preston, Howard G.	Sudan
Preston, Mary	Tahoka
Price, Christine	Lubbock
Price, H. Y., Jr.	Lubbock
Price, Luta	Cleburne
Price, Sarah	Lubbock
Priddy, Mrs. Agnes	Lubbock
Procter, Cecil W.	Lamesa
Purtell, Magdalen	Brownfield
Puryear, Lela D.	Lubbock
Puryear, Raymond	Poolville
Pyeatt, Lloyd	Amarillo
Quinlan, Gail	Lubbock
Quinn, Annie Ruth	Lubbock
Ragle, Eleanor	Lubbock
Ralls, Alma	Ralls
Rampy, Lela	Winters
Rankin, Alice	Elida, New Mexico
Rankin, C. C.	Elida, New Mexico
Rankin, J. D.	Lubbock

Rankin, J. M.	Ralls
Rankin, Jno. S.	Draw
Rankin, Mary E.	Elida, New Mexico
Rankin, Murvel	Lubbock
Ranne, Nina	Littlefield
Ratliff, Corene	Lubbock
Ratliff, Murl	Lubbock
Ray, Zelda	Lubbock
Raymon, E. Harden	Albuquerque, New Mexico
Rea, Ermalee	Post
Read, R. M.	Ralls
Rector, Joe	Marfa
Redford, Terry C.	Claude
Reese, Clinton	Idalou
Reeves, E. P.	Abernathy
Reeves, Hazel	Lubbock
Reeves, Mrs. Leola	Lubbock
Replin, Joe	Lubbock
Replin, Lucille	Lubbock
Renfro, Marvin	Kirven
Rhodes, John T.	Grand Saline
Rhodes, Mrs. T. A.	Lubbock
Rich, Fred T.	Wolfforth
Richardson, Eunice	Lamesa
Richardson, Faye	Ropesville
Richardson, Georgiana	Portales, New Mexico
Richardson, Vivian	Lamesa
Richey, Iva	Spur
Richey, Rhenm	Spur
Rider, Oma	DeLeon
Ritchie, Calvin L.	Lubbock
Robbins, Lydia	Lubbock
Robbins, Ora Mae	Floydada
Robbins, Wilma	Lubbock
Robbins, Woodard	Lubbock
Roberson, Horace	Lubbock
Roberson, Hugh B.	Lubbock
Roberson, Lady Clare	Lubbock
Robert, Rachel	Lubbock
Roberts, Alice	Perryton
Roberts, Mrs. C. E.	Lubbock
Roberts, Ellen	Avoca
Roberts, G. M.	Lamesa
Roberts, James H.	Stratford
Roberts, J. A.	Anson
Roberts, Voleta	Lubbock
Robertson, Homer	Alanreed
Robinson, Connor	Rotan
Robinson, Z. R.	Jewett
Rodgers, Lilah Gaye	Lubbock
Rogers, Alice Muse	Lubbock
Rogers, Bethel	Lubbock
Rogers, Pauline	Idalou
Rogers, Mrs. Ilia A.	Lubbock
Rogers, Pauline	Idalou

Rogers, Wilda M.	Lubbock
Rollins, Doris	Seminole
Rolle, G. J.	Lubbock
Ross, Mrs. Eva	Lubbock
Rosson, Mrs. G. H.	Lubbock
Rowden, Mildred	Vernon
Rumph, H. H.	Ralls
Rushing, Bobbye	Floydada
Rushing, Dorothy	Lubbock
Russell, E. T.	O'Donnell
Russell, Ethel Mae	Lubbock
Rust, Everett R.	Fort Worth
Ruttledge, Fay	Lubbock
Sampson, Mrs. Ethel	Lubbock
Sanders, A. B.	Ralls
Savage, Mrs. Ivy	Brownfield
Sayer, Mrs. Bess	Lubbock
Sayer, Bonnie Bess	Lubbock
Sayer, Doris	Lubbock
Scarbrough, B. Weldon	Floydada
Schenck, Walter	Lubbock
Scoggins, Harper	Floydada
Scott, Carrie	Vernon
Scott, Edward	Granger
Scott, G. W.	Idalou
Scott, Mrs. G. W.	Idalou
Scott, Johnnie Vee	Fort Sumner, New Mexico
Scott, Sadie	Stanton
Scott, T. P.	Stanton
Scudder, Mildred	Henrietta
Seale, Lela	Lorenzo
Searls, John P.	Athens
Seawell, Mrs. Mildred W.	Artesia, New Mexico
Seely, Frederick	Cleburne
Self, Mrs. H. B.	Winters
Self, H. B.	Thrift
Sessions, H. A.	Crosbyton
Sexton, Ira	Sylvester
Sexton, Mrs. Lettie Mae	Sylvester
Shaffer, Clifford	Sudan
Shaffer, Mable	Sudan
Shannon, Carrie	Levelland
Shaw, Christeene	Crosbyton
Sheid, Edith	Silverton
Shelby, Dee Alva	Lubbock
Shelton, M. L.	Alpine
Shepard, Janie Ruth	Hale Center
Shepperson, Alfred	Lubbock
Sheridan, Beulah	Matador
Sherrill, Maggie Mae	Seagraves
Sherrill, Myrl	Tahoka
Shield, Eupha M.	Snyder
Shinn, Mrs. John C.	Plainview
Shipworth, Bobbie Lee	Kress

Short, Lilla	DeLeon
Shortes, Elmer J.	Stanton
Showalter, R. L.	Lubbock
Shulkey, B. C.	Olney
Sides, Ivy	Estancia, New Mexico
Sides, King J.	Estancia, New Mexico
Sides, Mattie	Estancia, New Mexico
Simkins, Jewell	Ralls
Simmons, E. Clifford	Santa Anna
Simmons, Verna	Stephenville
Simms, Artie	Jean
Simpson, Modelle	Lubbock
Sims, Edna	Lubbock
Singley, Oletha	Lubbock
Skeen, Eva Lena	Silverton
Skeen, Maude Dee	Silverton
Slaughter, Mrs. Henry	Lubbock
Slaughter, Gordon	O'Donnell
Sloan, G. A.	Spur
Sloman, Sallie	Lubbock
Sloman, Willie	Lubbock
Slover, Edna M.	Lubbock
Smelser, Francis	Lubbock
Smith, Elizabeth	White Wright
Smith, Eula	Crane
Smith, Florice	Lorenzo
Smith, Grace	Tokio
Smith, K. L.	Fort Worth
Smith, Lewis	Olden
Smith, Mrs. Mabel	Lubbock
Smith, Macon	Lubbock
Smith, Maggie V.	Longworth
Smith, Minnie Ruth	Tahoka
Smith, R. C.	Morton
Smith, S. W.	Kerens
Sneed, Alton	Lubbock
Sneed, Mrs. H. A.	Lubbock
Snodgrass, N. K.	Lubbock
Snodgrass, Weldon	Lubbock
Snodgrass, W. W.	Lubbock
Snyder, Anne	Lubbock
Snyder, Mary	Lubbock
Southall, O. C.	Seminole
Sowder, Mrs. Eppie	Lubbock
Sowell, Evelyn	Lubbock
Sowell, Thressa Louise	Lubbock
Sparkman, Owen	Como
Spaulding, W. H.	Lubbock
Speer, Elizabeth	Alvord
Speer, J. E.	Lubbock
Speer, Mrs. Mildred	Lubbock
Speer, Rachel	Rule
Spencer, Amelia	Burkburnett
Spencer, Haynie	Cross Plains
Spencer, J. L.	Spur

Spencer, Mrs. Percy	Lubbock
Spykes, Hazel	Hermleigh
Stacy, H. E.	O'Donnell
Stalcup, J. T.	Abilene
Stanly, Mrs. Hugh	Mexia
St. Clair, James	Hedley
St. Clair, Mrs. James	Hedley
Stephens, Blanche	Gorman
Stewart, Evelynne	Lubbock
Stewart, Kathleen	Waco
Stewart, Mary	Lubbock
Stimson, Vernelle	Lubbock
Stokes, Erma	Lubbock
Street, Mrs. Clara	Lubbock
Street, Wm. Ezra	Lubbock
Strickland, Chester	Silverton
Strickel, D. L.	Lubbock
Stryker, Katherine A.	Lubbock
Stuart, Bettie K.	Wilson
Stults, Carl	Dallas
Stooksberry, Lloyd T.	Lubbock
Stooksberry, Mrs. Willie	San Angelo
Summerhill, Alice	Southland
Summerland, J. A.	Southland
Summers, Anna	Silverton
Summers, Sadie	Silverton
Swain, Mrs. Alton	Lubbock
Swan, Mrs. Burford	Tahoka
Swenson, Winnie	Bangs
Swofford, Mrs. Minnie	Grulla
Talbott, F. B.	Sudan
Tarter, Alice	Chillieothe
Tate, G. D.	Lockney
Taylor, Mrs. Curtis	Muleshoe
Taylor, Roy D.	Russelville, Arkansas
Taylor, Viola	Thalia
Teague, Alice Clair	Lubbock
Teague, Joyce	Lubbock
Teal, Vera	Lubbock
Terrell, Gertrude	Lubbock
Thannisch, Clarice L.	Spur
Thomas, Wm. S.	Mineola
Thomson, Gordon	Ballenger
Thompson, Grace	Lubbock
Thompson, Pauline	Lubbock
Thornton, Mrs. B. C.	Slaton
Thornton, E. I.	Slaton
Thornton, J. R.	Slaton
Thurman, Stella	Hamlin
Tidwell, Bernice	Ralls
Tidwell, Iva	Knox City
Tiner, Mrs. Beatrice	Meadow
Tiner, G. C.	Meadow
Tipps, Lela	Perrin

Tipton, Corinee	Lubbock
Todd, Mary M.	Crowell
Todd, Walker P.	Crowell
Tomme, Eustace R.	League
Townsend, C. O.	Ada, Oklahoma
Trachta, Anna M.	Muenster
Travis, Juanita	Ralls
Tredway, Will Edd	O'Donnell
Trigg, Nina	Texarkana
Trott, L. L.	Loraine
Tubbs, Loys	Lubbock
Tubbs, Sue Alice	Lubbock
Tucker, Woods	Lubbock
Tunnell, Amount	Stephenville
Tunnell, Fleda	Stephenville
Tunnell, Lenore M.	Tahoka
Turner, Earl	Lubbock
Turner, Margaret	Lubbock
Turpin, Vivian	Meadow
Tyer, Ruth	Lubbock
Upton, Edna L.	Lubbock
Ussery, Gladys	Carbon
Utsey, Martha	Belton
Van Dyke, A. J.	Lubbock
Van Dyke, Lucille	Lubbock
Vannoy, Joellene	McLean
Vannerson, Jim	Tulia
Van Pelt	Lubbock
Varley, Wayne	Collinsville
Vaughn, Clovis L.	Bledsoe
Vaught, Jane C.	Post
Vaughn, Laura S.	Corsicana
Vernon, W. M.	Spur
Viles, Bessie	Enloe
Viles, Christien	Colorado
Vinzant, W. H.	Lubbock
Vinzant, Mrs. Willie	Lubbock
Vowell, Lois	Robert Lee
Waddill, Peyton	Lubbock
Waghorne, Mrs. W. R.	Lubbock
Wagner, Charlie	Amherst
Wagner, Nellie Lee	Clovis, New Mexico
Walden, Vada	Lubbock
Wales, Gladys	Littlefield
Walker, Alma	Sudan
Walker, Mrs. B. Y.	Crane
Walker, Helen	Hale Center
Walker, Ike J.	Olton
Walker, Jessie A.	Lubbock
Wallace, H. A.	Lockney
Wallace, Mary Ola	Turnersville
Waller, Aleta	Spur
Waller, Gladys Ruth	Lubbock

Walls, Mrs. Margaret	Lamesa
Wampler, Irene	Lorenzo
Ward, Kenneth C.	Sedan, New Mexico
Wardell, Richard	Avery
Warren, Wm. C.	Snyder
Wartes, Blanche	Petersburg
Washburn, Katherine	Gatesville
Watkins, C. T.	Clayton, New Mexico
Watkins, Mrs. C. T.	Clayton, New Mexico
Watkins, Eva Robb	Seagraves
Watkins, Grace	Lubbock
Watkins, Kathleen	Seagraves
Watkins, Vivian	Lorenzo
Watson, Mrs. E. A.	Lubbock
Watson, Holly	Hermleigh
Watson, Lillyan	Lubbock
Webb, Bernice	Thalia
Webb, Della D.	Ellington, Missouri
Webb, H. P.	Olton
Webb, Joe	Hale Center
Webb, Juanita	Lubbock
Webb, Robert	Lubbock
Weisner, Helen	Van Alstyne
Wells, Mrs. B. C.	Lubbock
Wells, Bettie Mae	Ralls
Wells, Nona	Lockney
West, Cornelia	Wolfforth
West, Nola E.	Abilene
West, Veda	Wilson
Whatley, Jessie Mae	Meadow
White, Earl	Olton
White, Mrs. Horace	May
White, Edward H.	May
White, Kathleen	Weatherford
White, Lloyd	Lubbock
White, Lillie	Stephenville
White, M. R.	Burkburnett
White, Mrs. M. R.	Burkburnett
Whitis, T. S.	Levelland
Whitlock, Edith	Slaton
Whitlock, Mrs. Rosa	Slaton
Whitmire, Jerome R.	Sterling City
Wilbarger, Sarita	Harlingen
Wilhelm, Mrs. D. J.	Lubbock
Wilhelm, Pauline	Gainesville
Wilhite, James G.	Slaton
Wilhite, Mrs. J. G.	Slaton
Wilkinson, Lysabeth	Gainesville
Williams, Mrs. Buford	Floydada
Williams, Mrs. C. C.	Tahoka
Williams, Cecil	Lubbock
Williams, D. V.	Granger
Williams, Faye	Lubbock
Williams, James P.	Lubbock
Williams, Margaret	Lubbock

Williams, Mildred	Hillsboro
Williams, Thelma	Hillsboro
Williams, Vera	Montague
Williamson, Julian S.	Lubbock
Williamson, Lois	Lubbock
Willingham, Mrs. C. E.	Stanton
Willis, Bonnie	Wellington
Willis, Louise	Wellington
Wilmeth, Perry D.	Plainview
Wilson, Dorothy	Lubbock
Wilson, Eloise	Thrall
Wilson, Imogene	Thrall
Wilson, Ivo	Quanah
Wingrove, Cynthia A.	Memphis
Wisdom, Ernest	Claude
Wisdom, John E.	Claude
Wise, Eufaula	Lubbock
Wise, Grace	Quitaque
Witt, Josephine	Lubbock
Witt, M. E.	Lubbock
Wolfe, Ilse	Stamford
Wolffarth, Mamie	Lubbock
Womack, Gladys	Colorado
Womack, Helen	Lubbock
Womack, Samuel	Colorado
Wood, Mrs. Ora C.	Portales, New Mexico
Woodson, Evalyn	Lubbock
Woody, O. A.	Littlefield
Woolam, Maurice O.	Smyer
Woolam, Mrs. Newell	Lubbock
Wright, Catherine	Throckmorton
Yarbrought, Mrs. C. B.	Lubbock
Yeldell, Fanny Fay	Mexia
Yoder, Hal D.	Lubbock
Young, Adelaide	Kerens
Youngblood, Wade	Clarendon
Zellner, Lloyd	Lubbock
Zinn, Ella	Lubbock

1929-1930 FALL TERM ONLY

Abraham, Tom	Canadian
Acker, Adair	Maydelle
Adair, Eugene	Lubbock
Adams, Charles	Lubbock
Adams, Jerry	Cove
Adams, Mary Elizabeth	Lubbock
Adkinson, Douglas	Abernathy
Adkisson, Louisa	Lubbock
Ainsworth, J. C.	Bledsoe
Ainsworth, Floyd	Fluvanna
Ainsworth, Marjorie Ann	Lubbock
Akard, Mary Frances	Lubbock
Alderson, Frances	Byers
Aldridge, Milburn	Trenton
Alexander, Frederica	Cleburne
Alexander, Ruth	Breckenridge
Allen, Buford D.	Lubbock
Allen, Curtis	Lubbock
Allen, Edward	Lubbock
Allen, Maxine	Lubbock
Allen, Prentiss	Lubbock
Allen, Robbie	Elida, New Mexico
Allen, Tommie	Dimmitt
Allison, Douglas	Daisitta
Allison, Glenn	Clarendon
Allison, R. Alvin	Levelland
Alston, Lester	Tatum, New Mexico
Alsup, Adel	Asher, Oklahoma
Ammons, Elsie Opal	Longworth
Ammons, Harold	Lubbock
Ammons, Peyton Alvis	Roby
Anderson, Lora	Aspermont
Anderson, Randolph	Stanton, Iowa
Anderson, Velma	Aspermont
Anderson, Welton	Abilene
Angle, Mrs. Mae Ivy	Vernon
Archibald, R. H.	Lubbock
Arendale, Sidney	Houston
Armes, J. E.	Slaton
Armstrong, Elizabeth	Lorenzo
Armstrong, Kathryn	Lorenzo
Arnett, Annie Bess	Lubbock
Arnett, Aubrey	Big Spring
Arnett, J. C.	Anton
Arnett, Mildred	Anton
Arnim, J. Douglas	Flatonia
Arnold, Leon	Abilene
Arrington, Louise	Duncan, Oklahoma
Ash, Berlum	Lubbock
Asher, Joe P.	Paducah
Ashmore, Jessie Lee	Rockwood
Askey, Avis	Lubbock

Atcheson, Mae E.	Brandon
Atchison, C. J.	Lubbock
Ault, J. C.	Blackwell
Austin, D. T., Jr.	Mr. Pleasant
Austin, Hammond	Lubbock
Awalt, Willard	Brady
Ayers, Ross	Waco
Bagley, Mildred	Roaring Springs
Bagwell, Robert	Estelline
Bagwell, Stancil M.	Lubbock
Bailey, Carl	Estelline
Bailey, Sam	Estelline
Baird, Elizabeth	Vernon
Baker, Alice	Memphis
Baker, J. M.	Memphis
Baker, Billy	Coleman
Baker, Bonnie	Blanket
Baker, Dora	Dimmitt
Baker, Evelyn	Lamesa
Baker, Howard B.	Archer City
Baker, Twilight	Shallowater
Ballenger, Murray	Lubbock
Ballew, Vera Alta	Lubbock
Banner, Leslie Gordon	Fort Worth
Banta, Emerson	Electra
Bardwell, Mary Lee	Lubbock
Barker, Claude	Gageby
Barks, Francis	Tulia
Barlow, Maerlant	Fort Worth
Barnard, Berlin	Elida, New Mexico
Barr, Alice	Lubbock
Barrick, L. D.	Abernathy
Bartholomew, William	Brownwood
Bartlett, D. T.	Dallas
Bartlett, Hilma	Lubbock
Bartlett, Wilma	Lubbock
Bartley, Howard W.	Waco
Baskin, Margaret	Lubbock
Baskin, Mary Louise	Lubbock
Bates, Louise	Lubbock
Bate, O. D.	Brady
Bates, Roy M.	Lubbock
Baugh, W. Layton	Lubbock
Bavousett, Roe	Camp Spring
Bayless, Roscoe	Lubbock
Bean, Russell	Lubbock
Beard, Girdy Pearl	Rule
Beard, Harry T.	Rule
Beard, Haskell	Lubbock
Beard, Stella	Lubbock
Bearden, Harold	Lamesa
Bearden, Victor	Lamesa
Beaver, Leo	Fluvanna
Beene, G. L.	Roby

Bell, Gregory	Rice
Bell, Juanita May	Lubbock
Bell, Lennon G.	Lubbock
Bell, Uel	Lubbock
Bell, Will Alf	Brownfield
Benefield, Mrs. Pauline	Lubbock
Benefield, S. L.	Lubbock
Bender, Sophie	Lubbock
Benn, Owen	Abernathy
Bennett, Edwin Harold	Amarillo
Bennett, Joe L.	Fulfurrias
Benson, C. L., Jr.	Clarendon
Bergfeld, Julius L.	Dallas
Berry, George	Rosston
Berry, Hortense	Ropesville
Best, George	Woodville
Best, Raymond	Claude
Bettsworth, Harold S.	Amarillo
Bettes, Manon	Lubbock
Biggs, Russell	Amarillo
Binnion, Betty	McCamey
Bishop, Charles P.	Hartley
Black, Adolph	Athens
Black, Crawford	Lubbock
Blackburn, Rose Lee	Lubbock
Blacksher, Marjorie	Throckmorton
Blake, Lonnie L.	Lubbock
Blakely, Clifford	Idalou
Blanton, Ella Mae	Ralls
Blanton, Guy C.	Canyon
Blassingame, Vila	Floydada
Blaydes, Laurin	Lubbock
Elevins, Joseph Albert	Oklunion
Bludworth, Mrs. Lucille	Lubbock
Boggs, Donald R.	Lubbock
Boles, Mrs. B. L.	Lubbock
Boling, Robt. L.	Canyon
Bonner, G. W.	Ashland, Alabama
Boone, Crystelle	Lubbock
Boren, T. R.	Henderson
Bourland, J. C.	Coleman
Boverie, Bess	Wellington
Bowen, Mrs. T. L.	Loraine
Bowman, Marion	Seymour
Boyd, Hiley	Lubbock
Boyd, Hooks	Paris
Boyd, Kate Elkin	Lubbock
Boyd, Louie	Tulsa, Oklahoma
Boyd, Lydia Frances	Tulsa, Oklahoma
Boyles, Rheba Merla	Chillicothe
Boynton, Burline	Fluvanna
Bradley, Blanche	Lubbock
Bradley, Ira L.	Pampa
Bradley, Maxine	Lubbock
Bradshaw, Jack	Matador

Bradey, Barney A.	Amarillo
Brady, Ward	Claude
Bralley, J. C.	Tulia
Branch, Opal M.	Greenville
Brandenburg, R. T.	Dallas
Bray, Martin	Lubbock
Brazier, Edwin	Crosbyton
Brennard, J. R.	El Paso
Brewer, Roy	Andalusia, Alabama
Brewer, Vernon	Littlefield
Bridgers, Evaline	Lampasas
Brinkerhoff, E.	Quanah
Britain, Raymond	Dallas
Brock, Amy	Lubbock
Brock, Wilma	Lubbock
Brooks, Harold C.	Bishop
Brooks, James	Dallas
Brooks, Truitt	Brownwood
Brothers, Orville	Lubbock
Brown, A. B.	Lubbock
Brown, Albert W.	Clovis, New Mexico
Brown, Archie	Cameron, New Mexico
Brown, Dorothy	Cameron, New Mexico
Brown, Dovie	Shallowater
Brown, Ethel	Slaton
Brown, Ethel Deane	Cisco
Brown, Fay	Brownfield
Brown, Faye	Tahoka
Brown, George W.	Slaton
Brown, Grace V.	Clovis, New Mexico
Brown, Harold	Lubbock
Brown, Herbert S.	Lubbock
Brown, John T.	Lubbock
Brown, Lena Mae	Lubbock
Brown, Louis N.	Amarillo
Brown, Mrs. Mary E.	Lubbock
Brown, Nellie	Quitaque
Brown, Nettie Faye	Lubbock
Brown, Raymond	Lubbock
Brown, Robert E.	Cisco
Brown, Sue	Lubbock
Brown, Walter	Anderson
Brown, Willa Mae	McKinley
Browning, Buford	Fluvanna
Brummett, R. C., Jr.	Lubbock
Bryan, H. B. Jr.	Memphis
Bryant, Naival	Lorenzo
Buch, Eugene	Wetmore
Buchanan, Lila	Rising Star
Buck, Weneva	Crosbyton
Buie, Jas. Morgan	Fort Worth
Bullard, Gladys	Snyder
Bullock, Hubert	Lubbock
Bullock, Lesey	Lubbock
Bullock, Paul	Lubbock

Bumpass, Faye LaVerne	Lubbock
Burdette, R. L.	Goldthwaite
Burdette, Mrs. R. L.	Lubbock
Burford, Ferrall	Littlefield
Burgess, LaVerne	Lubbock
Burgess, Leslie Van	Lubbock
Burgess, Ray	Hart
Burkett, James	Portales, New Mexico
Burkett, Joe	Artesia, New Mexico
Burkhalter, Henry	Lubbock
Burns, Walter	Cameron
Burroughs, Myrtle	Lubbock
Burroughs, O'Neal	Lubbock
Burroughs, Ruth	Honey Grove
Burt, Ruth	Fulton, Missouri
Busby, R. O.	Houston
Bussey, Laurene	Lubbock
Butcher, Charles	Lubbock
Butler, Geo. Cecil	Lubbock
Butler, Lois	Lubbock
Butler, Marie	Gatesville
Bybee, Hazel	Lubbock
Bynum, Louise	Lubbock
Bynum, Mutor	Lubbock
Byrd, Harry	Grosvenor
Byrd, Walter	Lamesa
Cagle, Mary Jo	Lubbock
Cain, Earl H.	Yoakum
Cain, Mrs. Ruby	Lubbock
Calame, Spurgeon	Wartham
Caldwell, Bill	Bonham
Caldwell, Edrie	Quanah
Caldwell, J. B.	Slaton
Caldwell, Mrs. J. B.	Slaton
Calhoun, Aleen	Mineral Wells
Callan, Chalmers	Lubbock
Calvert, J. H.	Amarillo
Calvert, Ned	Summer
Cameron, Hubert B.	Dallas
Camp, Jack	Pecos
Campbell, Audrey	Lubbock
Campbell, Golda	Lubbock
Campbell, Jack L.	Lampasas
Campbell, Levoy	Slaton
Campbell, Trent	Lubbock
Candler, Emmett	Coleman
Candler, R. J.	Coleman
Canon, Val H.	Odessa
Cantrell, Mae	Carlton
Cantrell, Ralph	Mexia
Cappleman, Edgar	Honey Grove
Carder, Charles	Cordell, Oklahoma
Carmack, Shelborn	Konnarock, Virginia
Carmichael, Carlton	Lubbock

Carmichael, Loveta	Lubbock
Carnes, Clayton	Brownwood
Carpenter, Mrs. E. R.	Shallowater
Carpenter, Howard W.	Olner
Carpenter, R. B., Jr.	Waco
Carraway, Robert	Mineola
Carrell, Sawnie	Lamesa
Carrell, W. T.	Lamesa
Carruth, Estelle	Lubbock
Carsey, Charles	Dallas
Carson, Sarah Evelyn	Stamford
Carter, Christine	Henrietta
Carter, Evelyn	Exeter
Carter, Fletcher	Childress
Carter, Henry	Waco
Carter, Ruth	Lubbock
Carthen, Sam	Clarendon
Cassel, Lorene	Lubbock
Cason, Noel	Cleburne
Castleberry, Mary	Lubbock
Castleberry, Wayne	Eastland
Caton, Beryl	Lubbock
Cauble, E. G., Jr.	Stiles
Caywood, Flossie	Lubbock
Cellum, Genevieve	Lubbock
Chamberlain, Faye	Burnet
Chamberlain, Merle	Goree
Chandler, Bonite	Lubbock
Chapman, Dewitt	Tulsa, Oklahoma
Chapman, Emma	Lubbock
Chapman, Harmon	Olustee, Oklahoma
Chapman, Landrum	Lubbock
Chapman, Mary Edna	Amarillo
Chase, Arthur L.	Lubbock
Chauveaux, Mary	Claude
Chenowith, Chas. D.	Panhandle
Chesser, Bristol	Stanton
Chesser, Mrs. Joyce	Stanton
Cihacek, Mary	Fort Worth
Cihacek, Phyllis	Fort Worth
Clapp, Roger	Childress
Clark, Clessa	Springdale, Arkansas
Clark, F. M.	Lubbock
Clark, G. C.	Megargel
Clark, M. L.	Loraine
Clark, Rhoda Lou	Lamesa
Claunch, W. Byron	Hamilton
Clem, Annelle	Lubbock
Clem, Johliah	Lubbock
Clements, Canon	Lubbock
Clements, Lizzie Belle	Lubbock
Clements, Solon, Jr.	Lubbock
Clewell, Geraldine	Waco
Climer, J. M.	Mart

Cloud, Jim	Spur
Cloutdt, Ben J.	Rock Springs
Clutter, Bill	Bonham
Coates, T. L.	Covington
Cocke, Nora	Wellington
Cockrum, Melba	Goldthwaite
Cody, Leroy	Lubbock
Coker, F. M.	Paducah
Coker, Garland	Athens
Cole, Clarence A.	Valera
Cole, Pauline	Lubbock
Cole, Ray	Childress
Colgin, Andrew	San Marcos
Collie, Rubye	Lubbock
Colline, Allie Rae	Claude
Collins, Bill E.	Brownfield
Collins, Earl B.	Clovis, New Mexico
Gollins, Lawrence	Waco
Combest, Ruth	Olton
Cone, Eunice	Lubbock
Cone, Lula	Lubbock
Cone, Woodrow W.	Madisonville
Connell, Faye	Lubbock
Conner, James Preston	Lubbock
Conrad, Kathleen	Lubbock
Cook, Claudine	Lorenzo
Cook, Mrs. Gertrude Harris	San Antonio
Cook, John Louis	Henrietta
Coon, Helen	Lubbock
Cooper, Jesse C.	Lubbock
Cooper, John K.	Gordon
Cooper, Lois	Lubbock
Cooper, Margaret	Lubbock
Cope, W. D.	San Angelo
Copeland, Sam	Graham
Copeland, Mrs. O. R.	Lubbock
Coppage, Glen	Hollis, Oklahoma
Corry, Mrs. Ormond	Lubbock
Corse, William	Archer City
Cosby, Ellra	Olney
Cotten, W. C., Jr.	Lubbock
Couch, Hudson	Oklahoma
Couch, J. E.	Pecos
Cousineau, Jim C.	Brownfield
Cousins, S. A.	McLean
Cowan, Ruth	Itasca
Cowart, Travis	Lockney
Cowden, R. Paul	Osneorta, Alabama
Cowsert, Josephine	Dimmitt
Cox, Leah	Dimmitt
Cox, Walter	Abilene
Cox, Willie	Sweetwater
Cozby, Miller	Lubbock
Crabtree	Fort Worth
Craddock, Bernice	Post

Craig, R. L.	Marshall
Craven, Julius	Yantis
Cravens, Viola	Childress
Craver, Merrill	Yantis
Crawford, A. W.	Childress
Crawford, Herschel	Slaton
Crawford, Maghie	Carey
Crawford, Preston	Lubbock
Crawford, Vernon E.	Big Spring
Creighton, Opal Louise	Lubbock
Crews, Elizabeth	Lubbock
Crews, Rush	Lubbock
Criswell, Delmar	Buckholts
Crites, Harold	Lubbock
Cronin, Molly Ray	Hereford
Crosby, G. C.	Lubbock
Crosland, F. D.	Palo Pinto
Croslin, Lottie	Lubbock
Croslin, Wm. Lloyd	Lubbock
Cross, J. Hollie	Lubbock
Cross, Leon	Royse City
Cross, Leta Alice	Lubbock
Cross, Loy B.	Lubbock
Cruse, John B.	Woodville
Cryer, Barbara	Goldthwaite
Cudd, Thomas	Kingsville
Culp, Ray	Pearl
Culwell, Carl	Lubbock
Cummings, Clyde	Byers
Cummings, Seth T.	Cleburne
Cummins, D. L., Jr.	Haskell
Cummins, Leola	Estelline
Cunningham, Allen	Fort Worth
Cunningham, Noah	McLean
Curb, Earl	Lubbock
Currie, Myrtle	Newlin
Dallis, Gus	Lubbock
Dallas, James	Brownfield
Dalrymple, Anna Betty	Lubbock
Dalton, L. C.	Canyon
Damron, Jack	Crane
Daniel, Callia	Tatum, New Mexico
Daniel, Garth	Spur
Daniel, Geneva	Lubbock
Daniel, Grady	Anson
Darby, Lilly Zora	Estelline
Darr, Aud F.	Melrose, New Mexico
Darr, Jewell	Melrose, New Mexico
Darwin, Ray	Slaton
Davenport, Claire	Weatherford
Davidson, Lennie Jo	Portales, New Mexico
Davidson, Narl	Portales, New Mexico
Davis, Blanche	Lubbock
Davis, Chapman	Sulphur Springs

Davis, Douglas	Chillicothe
Davis, Edna Pearl	Lubbock
Davis, Edna Tom	Olton
Davis, Elmo	Lubbock
Davis, Foster	Rule
Davis, Garland	Teague
Davis, Hayden	Lubbock
Davis, Howard	Wichita Falls
Davis, Ina Ruth	Lubbock
Davis, John A.	Spur
Davis, Joyce	Ralls
Davis, Kenneth	Chillicothe
Davis, Kermit	Ralls
Davis, Lee B.	Lubbock
Davis, Margaret	Teague
Davis, Mildred	Lubbock
Davies, Nina Opal	Lubbock
Davis, Ouida	Lubbock
Davis, Rose	Lubbock
Davis, Roy C.	Childress
Davis, Vera	Lubbock
Dawson, Aaron	Tulia
Dean, Cecil	Lamesa
Dean, Horace	Dawson
Dean, Jeff	Lamesa
Dean, Nora	Lamesa
Dean, Ruby	Lubbock
Dean, Silas A.	Dallas
Deen, Neva	Doole
Delaney, Ruby	Lubbock
DeLashaw	Ivanhoe
DeLong, Mollie Drew	Mertzan
Denny, Christine	Greenville
Denning, Joel N.	Lubbock
Dennis, Ernest	Memphis
Dennis, Inez	Lubbock
Dennis, Leonard	Gramah
Dennis, Odessa	Lubbock
Denton, Bessie	Littlefield
Denton, Elven	Littlefield
Denton, Harmon	Littlefield
Derrick, Jewell	Tatum, New Mexico
DeShazo, Alma	Lubbock
DeShazo, Herbert	Lubbock
Davenport, Elmer	Earth
DeWitt, H. C.	Fort Worth
Dickinson, Gordon	Lubbock
Dickson, John	Portales, New Mexico
Dickson, Travis	Roby
Dietrich, Carl	La Pryor
Dillehay, Nona	Plano
Dinwiddie, C. B.	Tulia
Dison, Everett	Canyon
Dison, Roscoe	Canyon
Doak, Eva	Lubbock

Doak, Wesley	Lubbock
Dobbs, Harold	Altus, Oklahoma
Dobbs, Martin	Colorado
Doby, Ruby	Hamlin
Dockray, Felice	Lubbock
Dockray, Willie Pearl	Lubbock
Dodgen, Durward F.	Winnaboro
Doggett, Lloyd	Post
Dolman, Robert Hickman	Colorado
Dominy, James F.	Paducah
Donley, Joe B.	Perryton
Donnell, Sidney	Lubbock
Donnell, Ethel	Lubbock
Donnelly, Ray	Cedar Bayou
Doose, C. A.	Ballenger
Dossey, Thelma	Blanket
Douthitt, Lowell	Tahoka
Drake, George Lee	Lubbock
Drake, Lawrance	Kress
Drake, L. C.	Lubbock
Drake, Robert E.	Kress
Drake, Wilson	Kress
Dressen, Edward	Abilene
Drew, Ellis R.	Kaufman
Drexel, Blanch H.	Lubbock
Duckett, Harvey	O'Donnell
Duenkel, Ernest	White Deer
Duncan, Hazel	Lubbock
Duncan, J. A.	Lubbock
Dunham, Jimmie	Weslaco
Dunn, Erlene	Georgetown
Dun, Fannye Sue	Lubbock
Dunn, Harvey	Ralls
Dunn, Raymond	Slaton
Durham, Anna Belle	Hamilton
Durham, Jack	Hamilton
Dyer, J. M.	Waurika, Oklahoma
Dyer, Robert	Vega
Dyer, Wilma	Lubbock
Eagan, Ethridge	Lubbock
Eagan, Mrs. Ethridge	Lubbock
Eakins, Raymond	Rotan
Easley, Tom	Seymour
Eaton, Frank	Lubbock
Eaves, Lawrence	Friona
Eddleman, Frank	Abernathy
Edmiston, W. B.	Hamilton
Edmonds, Freeman	Spur
Edwards, Charles	Midland
Edwards, Eugene	Fort Worth
Edwards, Lucille	Lubbock
Edwards, Mollie	Silverton
Elkins, Clyde	Lubbock
Elliott, Madeline	Brownfield

Ellis, Alvis	Anton
Ellsworth, Annie M.	Lubbock
Ellsworth, Mrs. Emily	Lubbock
Emison, Frank	Brownwood
Enoch, G. J.	Floydada
Epps, Nute	Plainview
Erwin, Mary Virginia	Lubbock
Estes, Jo Ann	Memphis
Etter, Mrs. Ova May	Lubbock
Eubanks, Billy Pearle	Lubbock
Eudaly, Sheldon	Fort Worth
Evans, Gertrude	Meadow
Evans, Guy	Lindale
Everett, Jordan	Lampasas
Ewing, W. D.	Hollis, Oklahoma
Fairchild, Everett	Plainview
Fairley, Fred	Lubbock
Fanning, James	Grady, New Mexico
Farrington, Lee B.	Chillicothe
Farris, Emmett	Muskogee, Oklahoma
Featherston, Lou Rachel	Lubbock
Feazel, Mary Ann	Lorenzo
Ferguson, Roberts	Floydada
Ferguson, Roy C.	Kingsville
Fickas, Addie	Lubbock
Fickas, W. R., Jr.	Lubbock
Fikes, Scott	Granger
Fincher, Clyde	Chillicothe
Fine, Mrs. C. Z.	Slaton
Finley, Pat	Eldorado
Finnell, Leslie	Holliday
Fisch, Violet Maye	Silverton
Fisher, A. D.	Longview
Fisher, Arthur F.	Shallowater
Fisher, Hazel	Shallowater
Fisher, Leon	Memphis
Flake, Eiton	Plainview
Flanigan, Emily	Midland
Flowers, Jack	Big Spring
Folk, Mary	Santa Anna
Folk, Ellen	Santa Anna
Footé, Fay	Sudan
Forbess, Ordis E.	Lubbock
Forbess, Ruth	Lubbock
Forbis, Britain	Spur
Ford, Dimple	Lubbock
Ford, Frances	Lubbock
Ford, M. Hollis	Waco
Ford, Roxana Ruth	Lubbock
Ford, Ruby	Lubbock
Forman, Ellie R.	Teague
Formby, Marshall, Jr.	McAdoo
Fort, Addie Bell	Lubbock
Foster, A. Maye	Lockney

Foster, John P.	Stratford
Foster, Troy	Littlefield
Foster, Vincent	Amarillo
Fowler, Owen Murle	Lubbock
Franks, Andrew G.	Fort Worth
Franks, Connally	Whitney
Freeland, E. Y.	Lubbock
Freeland, J. Huberne	Lubbock
Fry, Bill	Dallas
Fry, Irene	Lorenzo
Fryar, Jack	Lubbock
Furr, Grover F.	Olney
Fuson, Earl	Abilene
Gable, Lois	Lubbock
Gable, Loraine	Lubbock
Gabrielle, Sanford H.	Nashville, Tennessee
Gaines, Leon	Bellevue
Gaines, Nannie Mae	Lubbock
Gaines, Velma	Lubbock
Galbraith, Chas. C.	Hereford
Gale, Mary Frances	Lubbock
Galloway, W. S.	Frankston
Galt, Charles C.	Hale Center
Gamel, Mary Lois	Lubbock
Gammill, Rankin	Lubbock
Gammon, John F.	Friona
Gantt, Hubert	Wildorado
Gardner, Ellsworth	Hollis, Oklahoma
Gardner, John G.	Winters
Garland, Edward	Lamesa
Garland, Margaret	Lamesa
Garlington, J. Donald	Vincent
Garner, Clarence B.	Frankston
Garrard, H. C.	Lubbock
Garrett, Mrs. Dochia	Lubbock
Garrett, Horace	Lubbock
Garrison, Hill	Lubbock
Garrison, Laverne	Lubbock
Garrison, Louise	Lubbock
Garrison, Ward	Lubbock
Garton, Era Mae	Amherst
Gaston, Kendrick	O'Donnell
Gaston, Walter Weldon	O'Donnell
Gautier, Kathryn	Littlefield
Gelin, Leona	Lubbock
Gibbs, Clifford	Loco, Oklahoma
Gibbs, Myrtle	Loco, Oklahoma
Gibson, W. L.	Hooks
Giddens, T. W.	Snyder
Gilbert, Katherine	Charleston, West Virginia
Gilbreath, Mrs. Wynona	Lubbock
Gilkerson, Afton	Lubbock
Gilkerson, Voncile	Lubbock
Gill, John Willard	Waco

Gilliam, Hughes	Haskell
Gilmore, Wm. A.	Waco
Gist, Morgan	Colorado
Glasscock, M. Bryan	Mercedes
Glazener, Walter, Jr.	Lubbock
Glazier, Candler	Lubbock
Glazner, Palmer T.	Anson
Glenn, Maurice T.	Stamford
Glenn, W. C.	Smyer
Glover, Don R.	Raymondville
Glover, Ralph C.	Raymondville
Goen, Guy	Dickens
Goforth, Flora	Lubbock
Gohlke, Rudie C.	Clifton
Golden, Carl	Snyder
Gooch, Henry	Lubbock
Goodloe, Nell	Lamesa
Goodloe, Jack	Lamesa
Goodpasture, Winsome	Lubbock
Gordan, Gerald G.	Lubbock
Gordon, James L.	Amarillo
Gordon, Jason O.	Albany
Gordon, J. W., Jr.	Hoover
Gordon, Lynn Gray	Lubbock
Gordon, Mary Evelyn	Albany
Gordon, Nina L.	Albany
Gorman, Shiloh	Seymour
Graham, Wayne	Hagerman, New Mexico
Granger, W. A.	Mt. Calm
Grantham, Rowena	Lubbock
Graston, Mary Elene	Wolfforth
Grau, Earl	Grady, New Mexico
Graves, Charlton	Italy
Graves, Eileen	Lubbock
Gray, George	Cee Vee
Gray, Hal	Abilene
Greathouse, Mary	Tahoka
Green, Della Doris	Lubbock
Green, Dick	Granger
Green, E. B., Jr.	Lubbock
Green, La Thagger	Slaton
Green, Lola Beth	Dickens
Green, Porter	Graford
Green, Ruth Jenice	Lubbock
Greenfield, Florence	Shamrock
Greer, Doyle	Lockney
Gregg, Virgil	Quitaque
Gregory, G. Carlyle	Teague
Gregory, Franklyn	Gatesville
Griffin, Everette	Lubbock
Griffith, Frank	Big Spring
Griffith, Homer E.	Lubbock
Griffith, Nova	Lubbock
Grimes, Curtis	Lubbock

Grimes, W. J.	Lubbock
Grimsley, Gladys	Lubbock
Grizzell, Edward I.	Colorado
Grooms, Oran	Rock Springs
Grundy, Jack F.	Quitauque
Gruver, Hazel	Lubbock
Guidry, Earl	Woodville
Guin, Thurmon	Quitman
Gulledge, Evelyne	Lubbock
Gunn, Fern	Lubbock
Gunn, Floyd M.	Lubbock
Gunn, Frances	Lubbock
Guthrie, John S.	Seymour
Gwin, Maxine	Pampa
Hailey, Lucille	Big Spring
Hale, J. E.	Granbury
Hall, Ewell	Memphis
Hall, Jay C.	Westbrook
Hall, Mancil L.	Lubbock
Hall, Mary Louise	Ancho, New Mexico
Hall, Myrtle	Stratford
Hall, Ruby	Stratford
Hall, Wyatt M.	Fort Worth
Halsey, Ray E.	Plainview
Ham, J. Riley	Teague
Hamilton, Beryl	Childress
Hamilton, Eunice	Oden
Hamilton, Lou Allie	Stephenville
Hamilton, Margaret	Plainview
Hamilton, Marguerite	Waxahachie
Hamilton, Norman	Quitauque
Hamlett, William	Baird
Hammack, Carvel	Kennedale
Hammons, Anne	Gordon
Hancock, Addie	Jayton
Hancock, Beulah	Tahoka
Hancock, Hugh	Lubbock
Haney, Corene	Thalia
Hankins, Flake	Lubbock
Hanna, J. J., Jr.	Quanah
Hanna, Nita Merle	Floydada
Hardee, Frances	Quitman
Hardin, Evelyn W.	Lubbock
Hardin, Louise	Gatesville
Hardin, Sterling	Stanton
Hardy, Josephine	Dimmitt
Hardy, Paul	Bonham
Hargrave, Elizabeth	Brownfield
Hargus, June B.	Eastland
Harkey, Gladys	Lubbock
Harkey, Wayne	Lubbock
Harman, Audrey	Lubbock
Harman, Noland	Lampasas
Harman, Kathleen	Lampasas

Harness, David	Brazoria
Harper, Arch R.	Lubbock
Harper, Bryan B.	Lubbock
Harral, Charles	Fort Stockton
Harral, George	Fort Stockton
Harrell, Fred B.	Loraine
Harrell, Lorene	Lubbock
Harris, Ed	Amarillo
Harris, Estelle	Roby
Harris, Ira Belle	O'Donnell
Harris, Hollis	Bromo
Harris, Lovelle	Roby
Harris, Mildred	Lubbock
Harris, T. J.	Clifton
Harris, Weldon R.	Clyde
Harrison, Ruby	Post
Harrison, Pearl	Roswell, New Mexico
Hart, Carl Raymond	Lamesa
Hart, Edgar	Olney
Hart, Kenneth L.	Big Spring
Harter, Joseph	Mart
Hartman, Elmer L.	Lockney
Hartzog, Evelyn	Lubbock
Hartzog, Lucille	Lubbock
Harville, Orieon	Commerce
Hastings, Robert	Lubbock
Hatchett, Chas. T.	Lamesa
Hawes, Opal	Lubbock
Hayes, Merwyn	Weatherford
Haygood, Thelma	Lorenzo
Haymes, Terrell	Lubbock
Haynes, Johnnie Villa	McLean
Hays, Leliese	Lubbock
Hazel, Lanoy N.	Spur
Hazelwood, John	Lubbock
Hazelwood, Theo.	Goose Creek
Head, Audrey S.	Snyder
Headstream, Vera	Roppsville
Heard, M. E.	Lubbock
Hearrell, Ruth	Lubbock
Heatly, Sid	Austin
Heddins, Lettrial	Lubbock
Helms, J. C.	Lubbock
Henderson, Edith	Byers
Hendrick, Cleo	Lubbock
Hendrick, Ira	Lubbock
Hendrick, T. G.	Lorenzo
Hendrix, Winnie	Lubbock
Henley, James	Brownwood
Henry, Kenneth	Floydada
Henry, Sam	Lubbock
Hensley, Inez	Lubbock
Henson, Charles	Symour
Herring, E. W.	Mt. Calm
Hershey, H. L.	Hereford

Hervey, Albert	Kerens
Hervey, H. C.	Corsicana
Hervey, Margaret	Rice
Hess, Orval	Hermleigh
Hester, E. K.	Lubbock
Hester, E. W.	Lubbock
Hickey, Thomas	Hillsboro
Hicks, D. Langdon	Lubbock
Hicks, Lawrence	Sudan
Higgins, Altus	Hereford
High, Ben	Dallas
Hill, Basil	Lamesa
Hill, J. Culver	Lubbock
Hill, Jim O.	Nocona
Hill, J. W.	Nocona
Hill, Loydell	Lubbock
Hindman, Rob	Texline
Hinds, Mildred A.	Lubbock
Hines, Mrs. M. D.	Lubbock
Hines, M. D.	Lubbock
Hinson, Rowena	Slaton
Hitchcock, Matt	Lexington
Hix, Margaret	Wellington
Hoard, Clindon	Ireland
Hobbs, Cecil	Rice
Hobbs, Earl	Littlefield
Hodges, J. C.	Tuscola
Holcomb, James G.	Snyder
Holden, Carrie Loue	Clyde
Holden, Joyce Ellis	Lubbock
Holden, Wilson B.	Parkersburg, West Virginia
Holeman, Alfred	Lubbock
Holeman, Clarence	Lubbock
Holland, Pauline	Lubbock
Hollar, Emory D.	Lubbock
Holliday, M. Alton	Nashville, Arkansas
Holmes, Lila S.	Lubbock
Holmes, Lyle	Shamrock
Holstead, Katherine	Waco
Holt, Clarice	Wheeler
Holt, Jessie	Lubbock
Honey, Glenys	Lubbock
Honeycutt, Alton	Temple
Hooks, Robert	Levelland
Hope, Edna	Lubbock
Hope, S. H.	Lubbock
Hopkins, Howard	Lubbock
Hopper, Hubert	Lubbock
Hopper, John	Lubbock
Hopper, Sam	Wellborn
Hopping, Lillian	Lubbock
Hopping, Patti	Lubbock
Horne, Cecile	Lubbock
Horne, Velma	Gilliland
Horton, Barbara	Hale Center

Horton, Howard	Dimmitt
Houghton, Edna N.	Lubbock
Houk, Herman W.	Waco
House, Alice Maude	Levelland
Houser, Wayland	Royse City
Householder, Pauline	Lubbock
Houston, Chas. E.	Lubbock
Houston, Lucile	Lubbock
Howard, Blanche	Valley Mills
Howard, Jim	Belton
Howard, W. Lon	Lelia Lake
Howard, Marshall	Lubbock
Howell, Harlan	Brownfield
Howell, Mabel	Knox City
Howell, A. Z.	Paducah
Hubbard, Ted	Crane
Hubbert, Oscar	Lubbock
Hudson, Wellborn R.	Dallas
Huff, Jewel	O'Donnell
Huff, L. E.	Post
Huff, Robert J.	San Antonio
Huff, Mrs. Ruby	Lubbock
Huff, Warren M.	San Antonio
Huffaker, Chloie	Wilson
Hufstedler, Chester	Red Springs
Hufstedler, Virginia	Lubbock
Hughett, Mendal	Lubbock
Hulsey, Ethel	Dickens
Hunt, Faye	Lubbock
Hunt, Howard	Lubbock
Hunt, Lucille	Claude
Hunt, Roy	Lubbock
Hunt, William	Alto
Hunter, Grace	Colorado
Hunter, Lavada	Lubbock
Huser, Robert	Granger
Huskey, R. V.	Floydada
Hussey, Clarence	Lubbock
Hutchins, Artie	Lubbock
Hutchins, Marshall	Lubbock
Hutson, Allene Ruth	Lubbock
Hyatt, Konie	Dimmitt
Igo, Ina	Ralls
Iles, Jeffie	Fort Worth
Inmon, Maggie Lee	Hale Center
Irion, Jim Everett	Dallas
Irvin, Aubra	Aspermont
Isaacs, Brady	Lubbock
Jackson, C. T.	Lubbock
Jackson, Florence	Lubbock
Jackson, Helen	Lubbock
Jackson, Irene	Lubbock
Jackson, James A.	Lubbock

Jackson, Mildred	Ral's
Jackson, Opal Louise	Lubbock
Jackson, Rachel May	Lubbock
Jackson, Ruby	Lubbock
Jackson, Stella B.	Lubbock
Jackson, Thelma	Lubbock
Jackson, Mrs. W. L.	Lubbock
Jacobson, John	Hereford
James, Gordon	Lubbock
James, Mrs. Jessie	Lubbock
James, Phillip	Lubbock
Jameson, Catherine	Lubbock
Jameson, Ethel	Gouldbusk
Jamison, Bill	Gorman
Janes, Robert	Paris
Jarvis, Howell R.	Crane
Jarvis, Rodney	Troup
Jay, Eddie James	Roby
Jeffers, Clare	Roanoke, Alabama
Jenkins, Ben Hill	Gail
Jenkins, Harmon	Lubbock
Jenkins, J. D.	Lubbock
Jenkins, Orville	Lubbock
Jennings, Bill	Electra
Jennings, Jean Shelley	Lubbock
Jenson, Alfred Julius	Clifton
Jeter, Era	Slaton
Johnson, Doris Ladd	Lubbock
Johnson, Eliem	Friona
Johnson, John R.	Lubbock
Johnson, Joyce	Lubbock
Johnson, Mrs. Margaret	Eastland
Johnson, Mildred	Roby
Johnson, Nathan	Seagraves
Johnson, Raymond	Tyler
Johnson, Vernon M.	Baird
Jones, Blanche	Clyde
Jones, Carl	McLean
Jones, Earl	Goose Creek
Jones, Eloise	Odessa
Jones, Gaston E.	Lubbock
Jones, Mildred	Lubbock
Jones, Nila	Belton
Jones, Paul A.	Gorman
Jones, Ruth E.	Abernathy
Jones, Veralee	Tulia
Jones, Vernon	Mullin
Jones, William O.	Paducah
Jones, Wilma	Lamesa
Jordan, Blanche	Lubbock
Jordan, Doyle	Elgin
Jordan, Fred	Lubbock
Judkins, Mary	Eastland
Kane, Edna	Moran

Kane, Wilda	Moran
Karnes, Lois	Lubbock
Kays, Norma	Texico, New Mexico
Keaster, Effie Lou	Lubbock
Keese, K. Maude	Seagraves
Keller, Henry	Mason
Kelley, Beaty	Seminole
Kelley, Clarence	Lubbock
Kelly, Joe	Dallas
Kelton, Willard	Baird
Kemp, Faye	Lubbock
Kemp, Frazier	McCaullcy
Kendrick, Johnnie	Amarillo
Kennedy, Ruby C.	Lamesa
Kerby, Cora	Wellman
Kerby, Juanita	Wellman
Kerby, Loy	Wellman
Kerley, Fay	Kerrville
Kerr, Emmett	Lubbock
Kerr, Horace G.	Petersburg
Kersey, Cecil	Amarillo
Key, H. G.	Mineral Wells
Kilgore, Joe	Cedar Bayou
Killian, Joe Bailey	Fort Worth
Kimbrow, Albert M.	Lubbock
Kimbrow, Karl	Lubbock
Kinard, Glenn	Cisco
King, Robert	Brownfield
King, W. A.	Floydada
King, Wm. Paschal	Oklauion
Kirk, Dean	Gorman
Kirk, Hubert	Stinnett
Kirkpatrick, Geraldine	Lubbock
Kirkpatrick, Lois	Lubbock
Kirkpatrick, Mabel	O'Donnell
Kirksey, Milton	Lorenzo
Kittrell, Frotilla	Petersburg
Kline, Wm. A.	Gregory
Knight, Georgia	Lubbock
King, Gordon	Tahoka
Knight, Martha E.	Roswell, New Mexico
Knowles, James	Jonesboro
Knowles, Sid	Jonesboro
Koeninger, Raymond	Plainview
Kral, Thomas, Jr.	Roby
Kuebel, Edgar	Spring Branch
Lacy, Mrs. Dorothy B.	Lubbock
Lahm, Louis E.	Amarillo
Lain, R. Homer	Munday
Lam, Kathleen	Sudan
LaMaster, Cyrus	Perryton
LaMaster, Walter B.	Perryton
Lancaster, Jesse Wade	Fort Worth
Landers, L. B.	Pittsburg

Lane, Leon	Valley Mills
Lane, Pauline	Lubbock
Lane, Robert Lloyd	Clifton
Lane, Walker M.	Lubbock
Laney, Jewell	Wellington
Lang, Joe W.	Kress
Lange, George Ray	Hagerman, New Mexico
Langford, George	Frankell
Langston, Lonnie	Lake City, South Carolina
Largent, J. S.	Merkel
Larmer, Frances	Lubbock
Lary, Hal	Clovis, New Mexico
Latimer, Jas. M.	Paris
Latson, Verna	Clarendon
Lattimore, Mrs. Mattilee	Lubbock
Lawley, Opal	Big Spring
Lawlis, Frank M.	Sylvester
Lawrence, Ben	Lubbock
Lawrence, Clayton	Mineral Wells
Lawrence, Hilda	Lubbock
Lawrence, Ivan	Killen
Lawrence, Mercedes	Lubbock
Lawrence, Violet	Lubbock
Lawrimore, Wm.	Lubbock
Lawson, Florence	Lubbock
Leach, Don	Mineola
Leach, Goldie Edith	Lubbock
Leach, Price	Plainview
Leary, Eunice	Estelline
Ledger, Stell	Idalou
Lee, Clyde	Cone
Lee, Gladys	El Paso
Lee, Hazel	Prairie Grove, Arkansas
Lee, Robert E.	Knox City
Leech, Duncan	Albany
Lehrer, Charles	Abilene
Leon, Claude	Rule
Leslie, Florine	Lubbock
Leslie, Thelma	Snyder
Lewis, Hazel V.	Bertram
Ligon, Hazel	Lubbock
Lile, Macie	Dimmitt
Lilly, Eula	Devine
Lilly, Faye	Devine
Lilly, Warren	Devine
Lindley, Mrs. Finis Cook	DeLeon
Lindley, Roy C.	Cisco
Lindley, Vivian	Lubbock
Lindsey, Delvim	Rule
Lindsey, Reuben	Stamford
Liner, Eucl	Lubbock
Link, Ruth	Tahoka
Linn, Dollie Mae	Lubbock
Lisemby, T. A., Jr.	Lubbock
Lisemby, T. A., Sr.	Lubbock

Lisman, Willie	Daisetta
Liston, Norman	Terrell
Liston, Olive May	Lubbock
Livingston, Frances	Talpa
Lock, John Henry	Mexia
Lockwood, Albert	Lubbock
Lockwood, Daisy	Lubbock
Lodal, Cary H.	Gordon
Lodal, Olaf	Gordon
Logan, Zula Mae	Lubbock
Long, Arda	Post
Long, Nina Mae	Flory
Long, Rawls	Roscoe
Loughridge, James A.	Waco
Love, Ruth	Lubbock
Lovelace, Everett Earl	Brownwood
Lloyd, Roger	Italy
Luce, Stephen B.	Lubbock
Lumsden, J. F.	Corsicana
Lundell, Helen	Lubbock
Lunn, Wacel	Lubbock
Lynn, Wilton E.	Lubbock
McAdams, Carl	Gordonville
McAlister, Lester	Red Oak
McAlister, R. B.	Brownwood
McAllister, Mrs. Ione	Lubbock
McArthur, Floyd	Spur
McArthur, Wilma	Spur
McCandless, Raymond	Rule
McCanne, Cornelia	Memphis
McCarty, Curry	Abilene
McCasin, Mittie	Chillicothe
McCauley, Edith Ethel	Lubbock
McCauley, J. B., Jr.	Lubbock
McClain, Carl	Lubbock
McClelland, Luke Calloway	Jacksboro
McClellan, Opal	Lubbock
McClellan, Orene	Lubbock
McClure, Oran	Spur
McClure, Raymond	Wellington
McCollone, Gerald	Lubbock
McConnell, M. W.	Gordonville
McCoy, Frances E.	Tahoka
McCoy, Winnel	Lubbock
McCreary, Jack	Lubbock
McCrory, Harry Lee	Ringling, Oklahoma
McCubbin, Roy H.	Valley View
McCullough, E. A.	Waco
McDonald, Edd	Plainview
McDonald, Harry	Slaton
McDonald, Leon	Merkel
McDonald, Milton	McAdoo
McDonald, Robert L.	Lubbock
McDowell, Orvill	Roswell, New Mexico

McEentire, Lila Fay	Graham
McFarland, Herschel	Littlefield
McFatter, Mrs. Marrion	Lubbock
McElroy, Lee Hick	Eldorado
McGaha, Vera	Lubbock
McGaughey, Mrs. Audra	Lubbock
McGaughey, J. H.	Lubbock
McGaughey, Nannie	Vera
McGee, Gladys Lynn	O'Donnell
McGowan, Jack	Lubbock
McGuffey, Joe B.	Lubbock
McGuire, Merlyn	Seymour
McGuire, Finis	Seymour
McIlvain, John, Jr.	Rockwood
McIlvain, Wilma	Rockwood
McIver, Inez	Trickham
McJohnson, Robert	Terrell
McJunkin, Walter	Houston
McKay, Sparks, Jr.	Marlin
McKinney, Herz	Waco
McKinney, W. T.	Gordonville
McKirahan, Wilson	Amarillo
McLean, Charlie	Dimmitt
McMillan, Doris	Hermleigh
McMurtry, Hayse	Vigo Park
McNabb, Margaret	Lubbock
McNeill, Mary Louise	Lubbock
McWhortor, James	Childress
McWilliams, Bennie	San Benito
McWilliams, W. D., Jr.	San Benito
Macha, Mozelle	Lubbock
Madden, Gerald	Waxahachie
Maddox, Don	Menard
Maddox, F. M.	Lubbock
Maddox, Frank S.	Lubbock
Magee, Lawrence	Lubbock
Main, Emma L.	Thalia
Main, Frank	Thalia
Main, Ray	Hamilton
Maize, Elmo E.	Spearman
Maltby, Jay W.	Desdemona
Manire, B. L.	Slaton
Manning, Dan	Waka
Markham, Kenneth	Silsbee
Marshall, Ellen	McAllen
Marshall, Pearlinae	Hartley
Martin, Bertha	Clovis, New Mexico
Martin, Emma Jean	Lubbock
Martin, G. Robert	Graham
Martin, Lula Mae	Dublin
Martin, Thomas Clifton	Lamesa
Mason, Mary Alice	Jonesboro
Mast, Henrie E.	Lubbock
Mast, Jane	Lubbock

Mast, Leland L.	Lubbock
Matheny, Whitman	Bardwell
Matson, Perry Irwin	Zephyr
Matthews, John C.	Lampasas
Matthews, Osre	San Bernardino, California
Maxey, Homer	Lubbock
Maxey, Robert E.	Lubbock
Maxwell, Garland	Lamesa
Maxwell, William	El Centro, California
May, Eva	Lubbock
May, Gordon	Snyder
Mayes, Eula Fay	Ral's
Mayo, Erle	Eastland
Meaders, Cornelia	El Reno, Oklahoma
Mecaskey, Lula Clay	Vega
Medlin, Lena Bert	Stamford
Melendez, A.	Zueztaltenango, Guatemala, C. A.
Merchant, Alma	Bomarton
Meredith, Grace	Coolidge
Meredith, Juanita	Lubbock
Meriwether, Carl	Lockney
Meriwether, Manon	Lockney
Merrell, Jerome	White Deer
Merry, Ben	Canadian
Messersmith, Marvin E.	Fort, Worth
Meyers, Raymond	Lubbock
Michie, Sarah	Lubbock
Mickle, Jack	Lubbock
Middleton, Charlie	Lubbock
Middleton, E. V.	Afton
Middleton, Mary Louise	Lubbock
Middleton, Paul F., Jr.	Fort Worth
Mika, Hugo	Ballinger
Miller, Alton	Hereford
Miller, Gladys	Gilliland
Miller, Kimsey T.	Lubbock
Miller, Lewis W.	Albany
Miller, Mary Beth	Willow, Oklahoma
Miller, Mildred	Lubbock
Miller, Oliver R.	Gilliland
Mills, Bonnie Alene	Lubbock
Mills, Curry	Santa Anna
Mills, Gordon	Lubbock
Mills, R. E., Jr.	Omaha
Millsap, Laurene	Lubbock
Minix, Elva	Clyde
Minor, Edward	Lubbock
Mitchell, Ted	Lubbock
Moffett, Milton	Stanton
Montgomery, J. N.	Slaton
Montgomery, Travis W.	Lubbock
Montgomery, Wilburn	Weslaco
Moody, Joe	Hawkins
Moody, Theodore M.	Dallas

Moore, Alma	Tyler
Moore, Bruce H.	Tyler
Moore, Curtis	Jacksboro
Moore, Dwight	Sealy
Moore, Elmer J.	Lubbock
Moore, Fred H.	Lubbock
Moore, Jas. T.	Cisco
Moore, Lucian	Lubbock
Moore, Milton	Hamilton
Moore, O'Dell	Ropesville
Moore, Ray C.	Hamilton
Moore, Reb	Desdemona
Moore, Seth Thomas	Gatesville
Moore, Weldon	Floydada
Moorhead, Thaddeus	Meadow
Moosberg, Carl A.	Athens
Moreman, Radie	Memphis
Morgan, Carroll	Little River
Morgan, Enyd Louise	Lubbock
Morgan, J. H.	Mission
Morgan, Perry	Pampa
Morgan, W. C.	Hereford
Morrison, Lois	Lubbock
Morrison, Sue	Lubbock
Morrow, Dallas C.	McKinney
Morrow, E. Glenn	Gorman
Moses, Connie	Lubbock
Moses, Julia Belle	Lubbock
Moses, Lucille	Lubbock
Moses, Oleta	Ralls
Moss, H. E.	Valley View
Moxley, Lucille	Lubbock
Mounts, Hattie	Hale Center
Mullino, Felix	Haskell
Murray, Virginia	Lubbock
Murphy, Henry B.	Hermleigh
Musgrove, Theodore	Grenville, New Mexico
Myers, Ada	Cleburne
Nail, Max	Memphis
Nance, J. W.	Hollis, Oklahoma
Nance, Virginia	Cleburne
Nash, Leon	Lubbock
Nash, R. M.	Slaton
Navarro, Alfredo	Puebla, Mexico
Needles, Belverd Earl	Lubbock
Nelson, Donald A.	Lubbock
Nelson, Eleanor	Lubbock
Nelson, Eloise	Sterling City
Nelson, Joseph J.	Clifton
Nelson, Mrs. Joseph J.	Clifton
Nelle, Wm. H., Jr.	Laredo
Nelson, Lomer	Lubbock
Nelson, Lillian	Lubbock
Nettles, Roy	Waco

Nettles, W. T.	Waco
Newberry, Cleone	Dickens
Newberry, Raymond	Hollis, Oklahoma
Newell, Kathrin	Wortham
Newman, Douglas	Bryson
Newman, S. T.	Thornton
Newman, Mrs. S. T.	Lubbock
Newsom, Garland	Childress
Nichols, Mary Ella	Lubbock
Nix, Ganie	Lubbock
Nixon, Verna	Floydada
Nixon, Walton	Waco
Noland, Charlie	Summerfield
Norman, Floyd	Amarillo
Norman, Hazel	Lubbock
Norris, Lee, Jr.	Hamlin
Norris, Sarah	Vernon
Northcutt, Victor	Goose Creek
Nott, Willard M.	Waco
Nowlin, Hazel Dale	Rotan
Nuckles, Joe T.	Chillicothe
Nunn, John	Abernathy
Nunnelee, Bradford	Bonham
Nutting, John	Amarillo
Nystel, Garland	Abernathy
Nowlin, Alta	Rotan
O'Connell, Elizabeth	Crowell
O'Dell, Pearl	Quanah
Odom, Alyne	Lubbock
Odom, James A., Jr.	Memphis
Odom, R. M.	Lubbock
Oglesby, Hazel	Lubbock
O'Kelly, Frances	Abilene
Oliphant, Louise	Quanah
Oliver, Clara	Huckabay
O'Neal, Leslie	Lubbock
Orr, Duane	Hereford
Osborne, Florence	Cloyde
Osborne, Gertrude	Lubbock
Osborne, Harold	Lubbock
Osborne, Weldon	Lubbock
Overstreet, Corinne	Lubbock
Owens, Annie Lee	Lubbock
Owens, Evelyn	Lubbock
Owens, Mrs. Georgia	Carney, Oklahoma
Owens, Mary Gene	Lubbock
Owen, Newburn	Tyler
Owen, Richard Neville	Clarksville
Owen, Wilson	Coleman
Oxer, Mary Jane	Plainview
Oxsheer, Dorothy	Big Spring
Pace, Betty Houston	Big Spring
Pace, Johnnie	Littlefield
Face, Lester	Newlin

Pair, Carrie	McAdoo
Palmer, Ethel	Hornbeck
Palmer, Irma D.	O'Donnell
Palmore, John	Rowena
Pankey, Florence	Anton
Parker, Bob	Lucille, New Mexico
Parker, M. E.	Lucille, New Mexico
Parker, Thalia	Lubbock
Parker, Walter	Lucille, New Mexico
Parks, Bruce	Clifton
Parks, Edna	Lubbock
Pargle, James Payton	Mineral Wells
Parks, Wilma	Clifton
Pate, Burton	Woodville
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Patterson, Mrs. H. T.	Lubbock
Patterson, Johnnie Mae	Plains
Patterson, M. L.	Big Spring
Patterson, Nina Mae	Nevada
Patterson, Pauline	Rotan
Patterson, Robbie	Idalou
Patterson, Robert	Roby
Patrick, R. D., Jr.	Daisetta
Paul, Virginia B.	Channing
Payne, Amental	Lubbock
Pearson, Nannie Marie	Lorenzo
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Pendley, Hugh M.	Forreston
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Pevehouse, William	Plains
Peveler, Catherine	Granbury
Pfaff, Martha	Gainesville
Pfluger, Carl	Eden
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Phipps, Virginia	Plainview
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Pickett, Elvis E.	Lubbock
Pickett, L. B.	Kempner
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Pimlott, Rex	Kress
Pinkerton, William	Plainview
Pinkston, Fred Dennis	Lubbock

Pirtle, Clayborne	Justiceburg
Pirtle, Milbria	Lubbock
Pittman, W. I.	Amarillo
Pittman, W. T.	Tulia
Poe, Marion	Harrisonville, Mo.
Pogue, Guy	Cedar Hill
Pool, Juanita	Lubbock
Poole, Gertrude Ruth	Abernathy
Poore, James E.	Thompson
Porter, Geo. W.	Jacksboro
Porter, Polly	Snyder
Potts, James	Lubbock
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Powell, David D.	Lubbock
Powell, Carolyn	Lubbock
Powell, Edwina	San Antonio
Powell, John R.	Dumas
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Powers, Elliot	Overton
Powers, Joe Bailey	Lubbock
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Pratt, Edwin	Red Oak
Pray, Cecil	Lubbock
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Price, Howard	Rochelle
Price, H. Y.	Evant
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Price, Zonelle	Breckenridge
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Proctor, Talbert	Merkel
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Talk, Elizabeth	Amarillo
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Taylor, Elliot	Lubbock
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Taylor, Robert Lee	Childress
Taylor, Thomas L.	Stratford
Taylor, Welton M.	Childress
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Thomas, Hattie Mae	Claude
Thomas, Luther	Loraine
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Thomas, William T.	Lubbock
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O COLLEGE MOTHER, BEAUTIFUL

(College Hymn of Texas Technological College sung to the music of
"America the Beautiful.")

1

O College Mother, Beautiful,
Our hearts go out to thee.
We raise our voices in a prayer
For thy prosperity.
O College Mother, Beautiful,
Long be thy life, and blest,
May God crown all thy nights and days
With love and joy and rest!

2

O College Mother, Beautiful,
Thy skies of vaulted blue
Call to thy sons and daughters all
Forever to be true.
True to the State they love so well,
The land that gave them birth;
True to their glorious heritage,
The fairest land on earth!

3

O College Mother, Beautiful,
Thy arches and thy towers
Thy halls and roofs and corridors
Forevermore are ours.
We love thy fields of cotton white,
Thy grasses and thy grains,
Thy canyons and thy terraces,
Thy fertile upland plains.

4

O College Mother, Beautiful,
We love thy words of truth,
Deep graven in thy brick and stone
To guide the ways of youth.
Long may thy fingers point the way
That earnest youth should tread,
And may the blessings of the free
Be ever on thy head.