

BULLETIN
OF THE
TEXAS TECHNOLOGICAL
COLLEGE

VOL. VII.

MAY, 1931

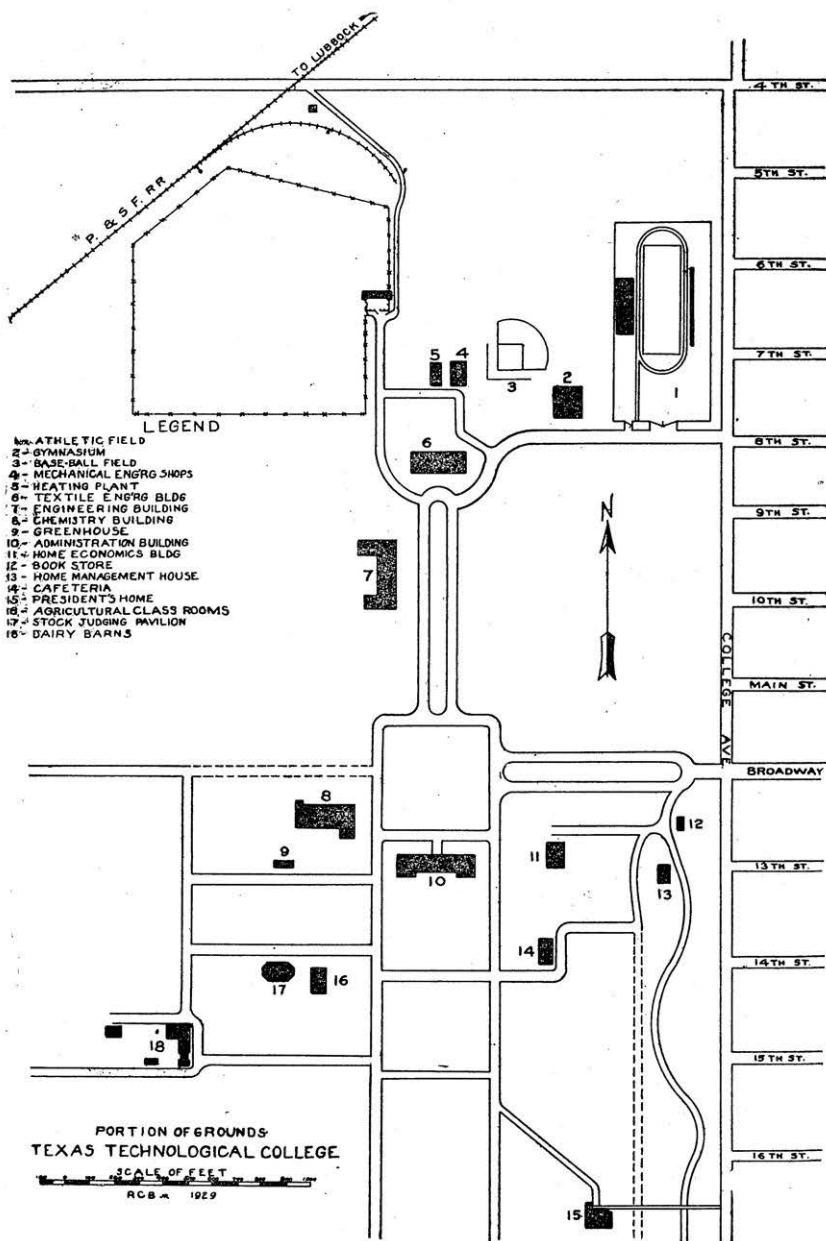
No. 5



SIXTH ANNUAL
CATALOGUE NUMBER
1930-1931
WITH
ANNOUNCEMENTS FOR 1931-1932
TEXAS TECHNOLOGICAL COLLEGE
LUBBOCK, TEXAS

Issued monthly by The Texas Technological College, Lubbock, Texas.

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COLLEGE CALENDAR

SIXTH ANNUAL SESSION

1931

September 19, 3:00 P. M., Saturday. Opening faculty meeting.

September 21-23, Monday-Wednesday. Entrance examinations.

September 23, Wednesday. Freshman orientation. All entering freshmen required to be present.

September 24-26, Thursday-Saturday. Registration.

September 25, Friday. Open house for all students by the churches of Lubbock.

September 26, Saturday. Reception to the student body by President and Mrs. Horn, 8:00 P. M., Administration building.

September 27, Sunday. Annual opening sermon for the College, 8:00 P. M., Gymnasium.

September 28, Monday. Fall term classes begin at 8:00 A. M.

September 30, Wednesday. Opening convocation, President's annual address.

October 5, Monday. Last day to register for full work.

October 12, Monday. Last day to register in fall term except by special permission from the dean.

November 10, Tuesday. Mid-term reports due in Registrar's office.

November 26-28, Thursday-Saturday. Thanksgiving holidays.

December 18-23, Monday-Friday. Fall term examinations.

December 24, Thursday. Fall term grades due in Registrar's office.

1932

January 4, Monday. Entrance examinations.

January 4, Monday. Registration for winter term.

January 5, Tuesday. Recitations begin at 8:00 A. M.

January 9, Saturday. Last day to register in winter term except by special permission from the dean.

February 13, Saturday. Mid-term reports due in Registrar's office.

March 14-18, Monday-Friday. Winter term examinations.

March 21, Monday. Registration for spring term.

March 22, Tuesday. Recitations begin at 8:00 A. M.

April 22, Friday. Mid-term reports due in Registrar's office.

May 31-June 4, Tuesday-Saturday. Spring term examinations.

June 4, Saturday. Spring term reports due in Registrar's office.

June 5, Sunday. Commencement Sunday.

June 6, Monday. Commencement day.

June 6-7, Monday-Tuesday. Summer school entrance examinations.

June 7, Tuesday. Summer school begins.

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

SEPTEMBER							OCTOBER							NOVEMBER							DECEMBER						
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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
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CALENDAR, 1932

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

BOARD OF DIRECTORS

OFFICERS OF THE BOARD

CLIFFORD B. JONES, Chairman.....Spur
MRS. F. N. DRANE, Vice-Chairman.....Corsicana
ROSCOE WILSON, Treasurer.....Lubbock
W. T. GASTON, Secretary.....Lubbock

MEMBERS OF THE BOARD

Term Expires 1933

R. A. UNDERWOOD.....Amarillo
RILEY STRICKLAND.....Amarillo
THOMAS JOHNSON.....McKinney

Term Expires 1935

JOHN A. HULEN.....Fort Worth
MRS. F. N. DRANE.....Corsicana
JOHN W. CARPENTER.....Dallas

Term Expires 1937

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

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JOHN W. CARPENTER.....THOMAS JOHNSON

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R. A. UNDERWOOD.....RILEY STRICKLAND

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JOHN W. CARPENTER, *Chairman*
HOUSTON HARTE.....JOHN A. HULEN

LEGISLATIVE COMMITTEE

HOUSTON HARTE, *Chairman*
THOMAS JOHNSON.....RILEY STRICKLAND

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., Soroee 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.

PETER WILLIS CAWTHON, *Professor of Physical Education; Head of Department.*

Southwestern University.

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, 1913; 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.*

B. A., Vanderbilt, 1912.

*Leave of absence, 1930-31.

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.

HARRY FREDRICK GODEKE, *Professor of Mechanical Engineering; Head of Department.*

B. S., University of Illinois, 1905; M. E., 1916; M. S., 1918.

ROBERT CABANISS GOODWIN, *Professor of Chemistry; Head of Department.*

A. B., Howard Payne College, 1917; M. A., University of Texas, 1923; Ph. D., Harvard University, 1928.

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.

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 Americane, 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, 1916; M. S. E., University of Michigan, 1930.

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.

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.

EDWARD LOOMAN REED, *Professor of Botany.*

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

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

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

GEORGE SMALLWOOD, *Professor of English.*

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

RUSSELL T. SMITH, *Professor of Physical Education.*

A. B., Austin College, 1925.

FRED WINCHELL 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.

*Leave of absence, 1930-31.

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

B. S., Tufts College, 1907; 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.

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

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

HELEN MATHILDE INGLEBORG BOYSEN, *Associate Professor of Biology.*

B. A., University of Texas, 1926; M. A., 1928.

*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.

ALBERT BENJAMIN CUNNINGHAM, *Associate Professor of English.*

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

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.

W. L. GOLIGHTLY, *Associate Professor of Physical Education.*

A. B., Austin College, 1925.

LEWIS STEPHEN GRANDY, *Associate Professor of Electrical Engineering.*

B. S. in E. E., University of Nebraska, 1922; E. E., 1927.

*Leave of absence, 1930-31.

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.

OSCAR A. KINCHEN, *Associate Professor of History.*
B. A., Oklahoma, 1916; M. A., 1920.

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., Peabody College, 1924.

JOHN ODELL MORGAN, *Associate Professor of Physical Education.*
A. B., Austin College, 1926.

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.

HENRY H. PFARR, *Associate Professor of Economics and Business Administration.*
B. A., Stephen F. Austin Teachers College, 1929; M. A., Ohio State University, 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.

*Leave of absence, 1930-31.

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.

ALAN LANG STROUT, *Associate Professor of English.*

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

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

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

MAYME TWYFORD, *Associate Professor of Foods.*

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

RALPH SYLVESTER UNDERWOOD, *Associate Professor of Mathematics.*

B. A., University of Minnesota, 1916; M. A., 1917; Ph. D., University of Chicago, 1930.

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.

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.

D'LAURAL BEVILLE, *Assistant Professor of Speech.*

B. A., Southwestern University, 1925; M. A., 1930.

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

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

MARY DALE BUCKNER, *Instructor in English.*

B. A., Texas Technological College, 1927; M. A., 1929.

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.

CECIL HARDEE CONNELL, *Graduate Assistant in Chemistry.*

B. S., North Texas State Teachers College, 1927.

*Leave of absence, 1930-31.

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

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

JANE MAST COX, *Graduate Assistant in English.*

B. A., Texas Technological College, 1929.

MRS. GEORGIA WILSON DINGUS, *Assistant Professor of Latin.*

B. A., Texas, 1910; M. A., Texas Tech, 1929.

VENTON L. DOUGHTIE, *Assistant Professor of Mechanical Engineering.*

B. S. in M. E., University of Texas, 1920.

GEORGE WILSON DRAKE, *Graduate Assistant in Chemistry.*

B. S., Texas Technological College, 1930.

NAT EDMONSON, JR., *Acting Assistant Professor of Mathematics.*

B. A., Austin College, 1924; M. A., 1925; Ph. D., Rice Institute, 1929.

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.

ELMER HALL, *Instructor in Mechanical Engineering.*

B. S. in M. E., State College of Washington, 1928; M. S. in M. E., University of Pittsburg, 1930.

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.*

MAURICE EARL HEARD, *Instructor in Textile Engineering.*

Georgia Tech.

*ELLIS RICHARD HEINEMAN, *Assistant Professor of 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.

*Leave of absence, 1930-31.

CECIL HORNE, *Assistant Professor of English and Journalism and Head of Information Bureau.*

B. A., Baylor, 1908; M. A., Yale, 1911.

CLARENCE PAUL HOTSON, *Assistant Professor in English.*

B. S., Cornell University, 1921; M. A., Harvard University, 1923; Ph. D., 1929.

J. W. JACKSON, *Instructor in Government.*

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

VIVIAN JOHNSON, *Assistant Professor 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.

*KENNETH LESLIE KNICKERBOCKER, *Instructor in English.*

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

LONNIE LANGSTON, *Assistant Professor of 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.

FITZHUGH LEE MCRREE, *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.

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

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

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.

*Leave of absence, 1930-31.

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; Ph. D., University of Wisconsin, 1930.

WILLIAM EZRA STREET, *Instructor in Engineering Drawing.*

B. S. in E. E., Texas Technological College, 1930.

ALFRED BELL STREHLI, *Assistant Professor of Spanish.*

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

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.

PAUL DIRKS VOTH, *Instructor in Biology.*

B. A., Bethel College, 1929; M. S., University of Chicago, 1930.

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, *Acting Librarian.*

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

*Leave of absence, 1930-31.

LULU STINE, *Assistant Librarian.*

B. A., University of Texas, 1925.

MRS. OLIVE PRICE HOLDEN, *Reference Librarian.*

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

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.

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

BUSINESS OFFICE

S. T. CUMMINGS, *Purchasing Agent.*

JANE MARGUERITE BENNETT STILES, *Auditor.*

WILLIAM CONNER COLE, *Manager of Bookstore.*

MRS. V. LORENZ ELLIS, *Cashier.*

E. C. PRIEST, *Student Activity Bookkeeper.*

VIRGINIA TINER, *Telephone Operator.*

MRS. ROSELLE RUSHING, *Postmistress.*

JACK ERNEST BOYD, *Secretary of Young Men's Christian Association.*

B. A., University of Oklahoma, 1924.

JO WILDER, *Secretary of Young Women's Christian Association.*

B. A., Iowa State Teachers College, 1927.

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.*

JOSEPHINE MOORE, *Secretary to Engineering Faculty.*

MRS. M. C. BRADLEY, *Secretary to Information Bureau.*

MARY JO COLE, *Secretary to Purchasing Agent.*

MILDRED WILLIAMS, *Secretary to Auditor.*

FLORENCE ROGERS, *Secretary to Business Manager.*

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, Michie, Stafford.
8. Student activities: Doak, Weeks, Mowery.
9. Student Publications: Mills, McGee, Horne.
10. Scholarship awards: Evans, Studhalter, Kleinschmidt.
11. Religious life among students: Clement, Nelson, Riegel.
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, Goodwin.
19. Public speaking: Mills, Granbery, Ogdon.
20. Discipline (men): Gordon, Leidigh, Miller.
21. Discipline (women): Doak, Weeks, Erwin.
22. Athletic Council: Stangel, Jackson, Dohoney, Cawthon, Gaston, Ratliff, Witherspoon.
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; 1929, 1,298; and 1930, 1,316, respectively.

It is well to point out that the total enrollment in the 1929-30 session, and the summer session, is as follows: Long session, 2,353; summer session, 1,316; extension, 1,098; total, 4,767.

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 revenue 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 expenses 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 of 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 small 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 buildings. 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 different 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 the present time there have been erected 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.

Home Management House.

Engineering Building, first unit.

Chemistry Building.

Cafeteria and Bookstore.

Stock Judging Pavilion.

Dairy Barn.

Heating Plant.

Mechanical Engineering Shop.

Gymnasium.

A small class-room building for Agriculture.

Greenhouse, first unit.

Approximately thirty-five small buildings comprising Agricultural equipment.

Building and Grounds Shop.

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 250 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.

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

The Cafeteria and Bookstore, erected in 1925, a brick and stucco structure modernly equipped.

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 principal 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; in the School of Liberal Arts the degrees are B. A. and B. B. A.; in 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	Mathematics.
Administration.	Military Science.
Education and Psychology.	Music.
English.	Philosophy and Sociology.
French.	Physical Education.
Geology.	Physics.
German.	Spanish.
Government.	Speech.

THE SCHOOL OF ENGINEERING

Architecture.	Mechanical and Chemical
Civil Engineering.	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

At the present time the Library contains, in addition to a considerable amount of material not yet accessioned, 47,631 accessioned books, maps, manuscripts, and pamphlets, of which 25,744 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; a collection of records of the Matador Land and Cattle Company, the gift of Mr. Riley, Superintendent of the Company; and also a collection of records of the Spur Ranch, the gift of Mr. 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.

The Library is a designated depository of the Carnegie Endowment for International Peace. This designation 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, the Dallas News from 1905 to date, and a complete file of the United States Daily, including the bound rag paper edition, form an especially important part of the periodical equipment.

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 is owned and operated by the College. It 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.

The Bookstore maintains a lunch counter, serving light lunches, sandwiches, drinks and pastries. This service is convenient to both students and Faculty Members, being ideally located and open for breakfast, dinner and supper.

At the end of all terms the Bookstore makes a practice of purchasing from students books which are to be used in the College the

following term or year. It gives prompt service on book orders and maintains a complete catalog book service, which is available to everyone. The Bookstore's purpose is to render courteous, efficient service to the student body and the Faculty, keeping the price of its merchandise as low as possible consistent with good business policies.

ATHLETICS

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

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.

MEMBERSHIP IN EDUCATIONAL ASSOCIATIONS

The Texas Technological College has membership in the following organizations: The Association of American Colleges; the Association of Colleges and Secondary Schools of the Southern States; the Association of Texas Colleges.

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, especially 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.

This catalogue and the announcements made herein are subject to change without notice.

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.

All entering freshmen are required to be in attendance Wednesday, September 23, 1931, 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 schools 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.

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 1½	Printing, 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, $\frac{1}{2}$	*Shop Work, $\frac{1}{2}$ to 4
Commercial Geography, $\frac{1}{2}$	Sociology, $\frac{1}{2}$
Commercial Law, $\frac{1}{2}$	Solid Geometry, $\frac{1}{2}$
Czech, 2	Spanish, 2 to 4
*Design, $\frac{1}{2}$ to 1	*Stenography and
Economics, $\frac{1}{2}$	Typewriting, 1 to 2
English History, $\frac{1}{2}$ to 1	Texas History, $\frac{1}{2}$
English, 2 to 4	Trigonometry, $\frac{1}{2}$
French, 2 to 4	*Typewriting, $\frac{1}{2}$
General Science, 1	*Vocational Agriculture, 1 to 4
German, 2 to 4	World History, 1
*Home Economics, $\frac{1}{2}$ to 4	Zoology, 1
Hygiene and Home Nursing, $\frac{1}{2}$	

ADMISSION BY EXAMINATION

In case a student is graduated from a high school which does not offer the full fifteen accredited units, he may then enter the freshman class after passing entrance examinations sufficient to bring the total

†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.

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

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 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.

SCHEDULE OF ENTRANCE EXAMINATIONS

FALL TERM, 1931-32

Monday, September 21

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 22

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 23

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

WINTER TERM, 1931-32

Monday, January 4

SUMMER TERM, 1931-32

Monday, June 6

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

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. 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 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.

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

Admission on individual approval 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 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.

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 the 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. The conditions all must be 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 in the Department of Extension. The first course in any of the foreign language courses (131-2-3) may be used to absolve the two entrance units in this language, but of course it cannot at the same time count as college credit.

ADMISSION TO ADVANCED STANDING

Students transferring from other colleges which have four grade letters will be given credit only for those 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 forty-five term hours in this institution. This does not apply to the School of Engineering.

REGULATIONS FOR STUDENTS

REQUIREMENTS FOR GRADUATION

To receive any undergraduate degree in Texas Technological College, the student must have met certain uniform requirements together with certain other requirements that may vary with the different schools or divisions of the College.

(1) Each student is required to do resident work in this College for not less than 36 weeks and earn at least 45 term hours credit, in addition to any number of credits accepted from any other institution. The student must also make before graduation a total number of grade points in residence equal to at least the number of credit hours required in residence for graduation.

(2) The candidate for any degree must file his application for the degree with the Registrar and with his dean not less than three terms in advance of graduation.

(3) The completion of all requirements of the course of study as outlined in the college announcement or its equivalent as determined by the faculty of the school offering the course must be certified to by the Registrar and by the dean. The curriculum requirements will be found in the appropriate divisions of the catalogues and announcements issued from time to time.

(4) Diplomas are delivered to the candidates who graduate at the time of the bestowal of the degree. Prior to graduation every candidate for a degree must pay to the Business Manager of the College the fee covering his diploma.

Graduation in absentia is not permissible for students in residence, and will be permitted only under special conditions stated in writing and approved by the dean of the school concerned.

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 count as two, except as provided for in paragraph 3b, 3c and 4a.

ADDING SUBJECTS

After the regular registration period a student may add a course only with the approval of the instructor concerned and the student's dean.

No course may be added after the first week of class work.

Adding a course must be attended to in person and not by a friend or by mail.

The following procedure should be carried out by the student:

- (1) Add cards—made out in duplicate—should be obtained from the dean's office.
- (2) Approval of the instructor of the subject should be obtained on these add cards.
- (3) The dean's approval of the add cards should then be obtained.
- (4) Payment of a fee of \$1.00 should be made to the Business Office.
- (5) Add cards should be filed in the Registrar's office.

NOTE: No add is official until all of the above procedure is completed.

DROPPING SUBJECTS

A student may drop a course only with the consent of his dean.

Dropping a course without permission (and persistent absence from class amounts to dropping) means severing one's connection with the College.

Dropping a course must be attended to in person and not by a friend or by mail.

The following procedure should be carried out by the student:

- (1) Permission should be obtained from the dean of the school in which the student is enrolled.
- (2) Drop cards—made out in duplicate—should be obtained from the dean's office.
- (3) The signature of the instructor of the subject should next be obtained on these cards.
- (4) Drop cards should be filed in the Registrar's office.

NOTE: No drop is official until all of the above procedure is completed.

CHANGING A SECTION OF A COURSE

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.

Section changes must be attended to in person and not by mail or by a friend.

The following procedure should be carried out by the student:

- (1) Permission should be obtained from the dean of the school in which the student is enrolled.
- (2) Change cards—made out in duplicate—should be obtained from the dean's office.
- (3) Approval of the instructor of each section concerned should next be obtained on these change cards.

- (4) The dean's approval of the change cards should next be obtained.
- (5) Payment of a fee of \$1.00 should be made to the Business Office.
- (6) Change cards should be filed in the Registrar's office.

NOTE: No change is official until all of the above procedure is completed.

CLASSIFICATION OF STUDENTS

The College recognizes in general but one kind of student—the regular student. Students are classified as freshmen, sophomores, juniors, seniors, and graduate students.

For the purpose of determining eligibility to hold certain offices and for other similar reasons, students are classified as follows:

FRESHMAN—A regularly enrolled student with all entrance requirements met, who has completed fewer than 45 term hours.

SOPHOMORE—A regularly enrolled student who has completed a minimum of 45 term hours and 45 grade points and not more than 90 term hours.

JUNIOR—A regularly enrolled student who has completed not less than 90 term hours and 90 grade points and not more than 135 term hours.

SENIOR—A regularly enrolled student who has completed not less than 135 term hours and 135 grade points.

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 assign-

ments, 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 becomes "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.

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 sufficient high average grade.

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 EDUCATION

Physical education 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, and his parents will be notified. Such withdrawal protects the student's record, in case he desires to return to the Institution or to transfer to another institution at some future time.

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. The students have cooperated with the College officials in this matter and have pledged themselves not to practice or permit hazing.

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.

INTRAMURAL TRANSFERS

The College encourages students to develop interest and knowledge in specialized fields of learning. Frequently it is necessary that opportunity for a change of major interest be provided, and to this end transfers between the different main divisions of the College are encouraged whenever such seem necessary in the best interest of the student. Students desiring to transfer from one school of the College to another must apply to their dean either at the beginning of the year in the fall or before examinations are held at the close of any term. Transfers are made in writing from the dean to the Registrar.

If a student has failed to pass nine hours under the scholarship probation regulations, he will not be enrolled in another school of the College until the provisions of the probation regulations have been met.

DEAD WEEK

During the week preceding examinations the Faculty Social Affairs Committee will not schedule any social functions at the College.

HOUSING REGULATIONS

The College has a faculty committee on student housing. The 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 approval 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, heating facilities, and telephone.

(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 required to report to the housing committee all cases of serious illness among students.

(6) Proprietors are required to report immediately to the housing committee when a student changes his place of residence.

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

(8) 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.

(9) 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.

(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 chaperones 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, women 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 for Freshman Women

Women of the freshman class will be required to live in the dormitories designated by the Directors as dormitories for freshman women. The only exceptions to this rule will be those working in homes for their room and board, and students residing with their parents or guardians.

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 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 according 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 AND DEPOSITS

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.

LABORATORY FEES AND DEPOSITS

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

Students pursuing laboratory courses are required to pay such laboratory fees and deposits as are specified. The fees are limited by law and 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.

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.

RETURN OF FEES

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.

The laboratory fee for the current term is not returnable after ten days but fees for following terms may be returned if the student withdraws from the course in advance of starting upon the work of the term.

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 *Toreador*, the College weekly paper.

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

MEDICAL SERVICE FOR STUDENTS

The Lubbock Sanitarium, 1301 Broadway, 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. This examination is not a complete examination in the clinic of the sanitarium.

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 for treatment underway in the Sanitarium.

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 Carl McAdams of Gordonville, Texas.

John W. Carpenter Scholarship of \$250.00 for the student with the highest excellence in Textile Engineering awarded to Frank Maddox of Waco, Texas.

Clifford B. Jones Scholarship of \$250.00 for the student of highest excellence of work in Agriculture awarded to Elmer Hartman of Lockney, Texas.

Fort Worth Star-Telegram Scholarship of \$250.00 for the best all-around athlete awarded to Dennis Vinzant of Lamesa, 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 Jack Durham of Hamilton, Texas.

Faculty Scholarship of \$125.00 for some worthy young man or woman awarded to William Nelle of Laredo, Texas.

Scholarship of \$100.00 for the best work in English done by any young man in the College awarded to Donald R. Boggs of Lubbock, Texas.

Scholarship of \$100.00 for the best work in English done by any young woman in the College awarded to Martha Pfaff of Gainesville, Texas.

Scholarship of \$100.00 for the best college citizen among the men awarded to Cary Lodol of Gordon, Texas.

Scholarship of \$100.00 for the best college citizen among the women awarded to Lizzie Belle Clements of Lubbock, Texas.

W. L. Ellwood Scholarship of \$100.00 for the highest scholastic standing in Latin awarded to Nina Opal Davies of Lubbock, Texas.

Scholarship of \$50.00 for the student doing the best work in interpretative reading awarded to Pearl O'Dell of Quanah, Texas.

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

Scholarship of \$50.00 for the student making the best oration awarded to E. B. Fincher of Amarillo, Texas.

Scholarship of \$50.00 for the best debater among the men of the College awarded to William R. Sewell of Slaton, Texas.

Scholarship of \$50.00 for the best debater among the women of the College awarded to Mary Beth Shelly of Lubbock, Texas.

PRIZES

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 Velma Anderson of Aspermont, 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 failure, conditional, or incomplete grades.

LOAN FUNDS

There are a number of student loan funds available for students of Texas Technological College. Some of these funds are comparatively small in amount and are available only for certain groups of students. Other funds have been established by bequest; the interest on the principal is loaned to deserving students on fair security at a nominal rate of interest.

The George T. Morrow Loan Fund.—This fund amounts to \$20,000. It was left to the College as a bequest by Mr. George T. Morrow, who was in business in Lubbock for a considerable number of years.

The Will C. Hogg Loan Fund.—This fund consists of \$25,000 left as a bequest by the donor whose name it bears. It is administered by a Board of Directors appointed in accordance with directions in the will of Mr. Hogg. This estate is now in the process of settlement.

The Dr. R. J. Hall Loan Fund.—This fund was established as a bequest by Dr. R. J. Hall of Lubbock. The estate is now in the process of settlement.

The Rotary Loan Fund.—Members of the Rotary Club of Lubbock have contributed to this fund, the principal of which now amounts to approximately \$7,000.00. The 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 \$415.00. 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 Atheneum 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 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.

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.

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 these cases where the student must almost wholly pay his way as he goes, he should 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 most 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	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
	Meat cutter

STUDENT ACTIVITIES

RELIGIOUS ORGANIZATIONS

THE YOUNG MEN'S CHRISTIAN ASSOCIATION

The Association is affiliated with the National Council of Young Men's Christian Associations. This gives a student member an introduction to any Association in the world. Activities afford fellowship of the best sort for a young man away from home. Meetings and conferences are held for all the students of the College. Counsel on religious, social, and other problems is available through frequent discussion groups. Students are urged to consult with the secretary freely on their personal problems.

Particular attention is given to freshmen and other persons 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. promotes the purposes of the Association among the men of the freshman class, and strives to establish the best contacts possible among this group.

This work is financed by voluntary contributions from students, parents, alumni, faculty, citizens of Lubbock, and other friends of the College.

THE YOUNG WOMEN'S CHRISTIAN ASSOCIATION

The Y. M. C. A. of Texas Technological College is an organization for all women students and faculty members who will declare the following to be their purpose:

"We, the members of the Young Women's Christian Association of Texas Technological College, unite in a desire to realize full and creative life through a growing knowledge of God.

"We determine to have a part in making this life possible for all people.

"In this task, we seek to understand Jesus and follow Him."

The work of the Y. M. C. A. is carried on largely through committees who are experimenting with the applications of Christianity in various phases of living. The Association is interested particularly in the problems of student life and college adjustments. The committee chairmen meet in regular weekly sessions to carry on the executive work of the Association, and to plan policies. Definite attempts are being made to carry on a regular worship and religious program which will include any students who are interested. There is no barrier placed for membership because of creed or Church affiliation.

Anyone wishing further information about the Y. W. C. A. should address his correspondence to the Executive Secretary of the Y. W. C. A., Texas Technological College.

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 every-day activities on the college campus. Fifteen hundred copies are distributed each Thursday. At the beginning of the Fall Term, the Orientation edition is issued for the purpose of acquainting first year students with the College and its activities. In the second term of the Summer School, the Homesick Edition is mailed to each student who attended Texas Technological College during the year. The regular weekly edition during the term is available at no further cost to those students who have paid the student activities fee.

"La Ventana," the College annual, is the mirror of the college year, touching practically every phase and interest of college life. Seventeen hundred and fifty students purchased copies of the 1930 annual.

The two college publications offer invaluable training to students who have the "writing bent." The students in journalism furnish the greater part of the material for "The Toreador" and "La Ventana," but all students have an opportunity to participate.

In addition to the publications dealing with college life, the students at the beginning of the fall term prepare a student directory, which contains the names and addresses of all students, employees, and faculty members of the College.

MUSICAL ORGANIZATIONS

BANDS

The College Band, under the direction of Mr. Harry LeMaire, rehearses every morning. There are approximately forty uniformed members in the organization. Those interested in joining this band should make application to the bandmaster. (In the stucco building to the left as one enters the campus).

The Girls' Band rehearses three times each week at 5:00 p. m.
The Saxophone Band rehearses two evenings each week at 7:30.

ORCHESTRA

The College Orchestra meets Wednesday evening at 7:30.

GLEE CLUB

The Women's Glee Club, under the direction of Mr. Waghorne, meets Monday at 4:00 p. m.

The Men's Glee Club meets Monday at 7:30.

CHORAL CLUB

Mixed voices, meets Wednesday evening at 7:30.

Prospective members of these organizations should arrange and properly schedule these classes at the time of registration.

ARTIST COURSE

The Artist Course is a series of high-class attractions sponsored by the College and offered to the student body at a minimum cost of one dollar for all five numbers. The numbers for this year were: The Mexican Tipica Orchestra, conducted by Torreblanca; an Evening of Opera by a quartet and an accompanist; the Cherniavsky Trio who rendered a program of concerted numbers for violin, violoncello and piano; The Brahms Quartet; Maurice Dumesnil in a piano recital. The numbers were distributed throughout the college year and presented an excellent course.

The Artist Course Committee has also sponsored, this year, the production of Hamlet by Sir Philip Ben Greet's company of English players with Russell Thorndyke playing the title role.

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 simple speeches to formal addresses. The classroom is a laboratory where much practical work is done. Both informal and formal debates are studied. Intercollegiate 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 Chemical Society, 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.

UNDERGRADUATE DEGREES

Two undergraduate degrees are offered in the School of Liberal Arts: Bachelor of Arts and Bachelor of Business Administration.

REQUIREMENTS FOR GRADUATION

The admission requirements for both undergraduate degrees are the same. The candidate must have met the entrance requirements, must have been regularly enrolled in the College, and must have met the specific requirements for the particular degree he desires.

Entrance Requirements

1. English	3 units
2. A foreign language.....	2 units
3. Mathematics.	
Plane Geometry 1	
Algebra 1	2 units
4. Civics	½ or 1 unit
5. Two from either	
Group (a): History, Civics, Sociology, or	
Group (b): Botany, Zoology, Chemistry, Physics,	
Geology, General Biology, General	
Science, 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 4½ units
Total.....	15 units

A list of the subjects and units accepted for admission will be found under "Entrance."

College Courses Required for Bachelor of Arts Degree

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.
 - 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. Federal and State Constitution
(Government 230) 3 Term Hours
(If Government 131-2-3 is offered as a social science, the State requirement in Government will be absolved.)
 - 8. Two years of Physical Education. Option: Military Science. Must be taken in the freshman and sophomore years unless excused by the Dean.
 - 9. 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.
 - 10. As a part of the requirement of 9 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.

*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.
5. Physical Education or Military Science.

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.
3. Physical Education or Military 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 under "Entrance."

COURSES LEADING TO LAW OR 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 School of Liberal Arts of this College 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.

*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.

Senior year: One or two additional advanced courses is 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 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, together with all graduation requirements except that of the major subject.
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 education or military science.
5. The grade point requirement.

REQUIREMENTS FOR THE BACHELOR OF BUSINESS

ADMINISTRATION DEGREE

Freshman Requirements

	Term Hours
English 131-2-3	9
Government 131-2-3	9
A natural science	9 or 12
Mathematics 137-8-9	9
Speech 131-2, 1314	9
Orientation	2
Physical Education or Military Science.	

Sophomore Requirements

English 231-2-3	9
Economics 231-2-3	9
Economics 234-5-6	9
History 231-2-3	9
Mathematics 237-8-9 (formerly 337-8-9)	9
Physical Education or Military Science.	

Junior and Senior Requirements

Economics 334-5-6	9
Mathematics 337-8-9 (formerly 2310-11-12)	9
English 3311-12; Journalism 3312	9
Psychology 230, or Philosophy 231	3

An additional requirement of 27 hours from the Department of Economics and Business Administration for completion of the major work. The remaining required hours for graduation may be approved electives.

GENERAL REQUIREMENTS

No degree will be conferred except publicly and on Commencement Day in June or August. All candidates are expected to attend in person the Commencement at which their degree is to be conferred unless absent for good cause, in which case they must petition the Dean for permission to be absent from the exercises. Proper address and postage for mailing the diploma must then be provided.

FORMAL APPLICATION FOR A DEGREE

Formal application for the Bachelor of Arts and for the Bachelor of Business Administration Degree must be filed with the Registrar's office during the term ending the Junior year, and not later than the time of registration for the Senior year. Senior transfers must make formal application when registering for the first time. After filing the formal application for the degree with the Registrar, the student must then verify his standing at the Dean's office. The student therefore is held responsible for meeting all requirements for the degree.

Candidates for the degrees who are not in school during the full session, but who expect to receive a degree at either Commencement, must so advise the office of the Dean not later than the close of the winter term of the regular session in which they expect to complete their degree work.

THE MASTER OF ARTS 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.
 Spanish.

The requirements for the degree are:

Admission to Candidacy: To be admitted to candidacy for the Master of Arts degree, a student must have received the Bachelor of Arts degree from the Texas Technological College, or a Bachelor's degree from another college or university, representing an equivalent training. This means that the work done in another institution shall meet, approximately, the minimum prescribed requirements for the Bachelor of Arts degree in the Texas Technological College, certain latitude being permitted in electives and major requirements. Furthermore the institution from which the student has been graduated must have held membership in a recognized association of senior colleges at the time the student was graduated. 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 enrolment.

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 will be credited if the grade is lower than B, whether the grade is made in this College or is transferred from another institution.

Major and Minor Subjects: The candidates for the Master of Arts degree shall complete a minimum of 27 term hours including the thesis in the major subject. The thesis usually counts three term hours' credit, but may carry credit as high as nine term hours. The remainder of the forty-five term hours may be offered in one or two minor subjects provided not less than nine term hours may be offered in any subject, and provided further that at least one minor subject must be closely related to the major subject. If the candidate so elects and his department approves, he may take all his graduate work in one department. Minor subjects must be approved by the department in which the major is taken.

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 the student must pass creditably

an oral examination covering the work offered in his candidacy for the degree. The examination shall be set by the Dean of the School after the candidate has completed his thesis and is recommended for the examination by the head of the department in which the candidate is majoring.

Foreign Language: A reading knowledge of at least one foreign language is required. A student who presents a minimum of the equivalent of 18 term hours of college credit in 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.

THE MASTER OF SCIENCE DEGREE IN EDUCATION

Students who wish to do graduate work in the Department of Education but are unable to meet the foreign language requirement for the Master of Arts degree, may be graduated with the Master of Science degree in Education. The requirements for this degree are similar in every respect to those of the Master of Arts degree with the exception of the foreign language requirement. For the Master of Science degree in Education the candidate may offer either in his undergraduate or graduate courses, a minimum of 9 term hours in statistics in lieu of the foreign language.

COURSES IN BIBLICAL HISTORY AND LITERATURE

MISS DEBARDELEBEN.

Through the interest and courtesy of the Woman's Department of the Board of Missions, M. E. Church, South (headquarters at Nashville, Tennessee) courses in Biblical History and Literature are offered, a maximum of 18 term hours credit being allowed in the School of Liberal Arts. The classes are held in the rooms of the College, and the work is under the supervision of the School of Liberal Arts, subject to all the regulations that govern other courses of the school.

131. *Historical Background of the Old Testament.* A brief, elementary study of the history of the Hebrews. Given as a unit in itself and is a prerequisite to the succeeding course, 132.
132. *Old Testament Introduction.* Prerequisite 131. A study of each of the books of the Old Testament as to composition, authorship, canonicity, and religious teaching.
133. *History of the English Bible.* A study dealing with the various versions of our English Bible, and the vicissitudes accompanying its translation and transmission.

134. *New Testament Introduction—The Gospels.* The authorship, characteristics and general content of the first four books of the New Testament, generally known as the Gospels. No prerequisite. May be taken independently.
- 135-6. *New Testament Introduction.* A brief survey of the remaining books of the New Testament as to authorship, occasion, purpose and general content. No prerequisite. One continuous course.
231. *Life of Jesus.* The life of Jesus as given in the synoptic gospels together with the social, political, and religious background of the time. Open to freshmen. Fall, winter, and spring terms.
- 232-3. *The Teachings of Jesus.* Prerequisite: 134 or 231. Open to freshmen. Special emphasis is placed on the application of the teachings of Jesus to modern problems.
- 331-2-3. *Old Testament History.* Prerequisite: Junior standing. 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.)

DEPARTMENT OF BIOLOGY

Professors Studhalter, Reed. Associate Professors Landwer, *League, Boysen. Instructors Studhalter, *Sealey, Voth.

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.

*Leave of absence, 1930-31.

230. *Plant Pathology*. 2 lecture hours, 3 laboratory hours. Prerequisite: Botany 131-2-3. 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. 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 term hours in zoology. A study of the more important invertebrates. Fee, \$4.00; deposit, \$5.00.
234. *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; 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, \$1.50; deposit, \$5.00.
236. *Economic Entomology*. 2 class hours, 3 laboratory or field hours. Prerequisite; 9 term hours in Biology. 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 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; prerequisite or parallel, 9 term hours in chemistry. 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 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 kingdoms.
- 411-2-3. *Biology 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 Goodwin, Ray, Craig. Assistant Professor Slagle. Instructor Marshall. Graduate Assistants Galbraith, Connell, Drake.

The Department of Chemistry offers two foundation courses, Chemistry 141-2-3 and Chemistry 144-5-6, either of which will fulfill chemistry requirements for those curricula calling for one year in Chemistry. Likewise, either will serve as a science elective in the School of Liberal Arts. Whenever Chemistry 141-2-3 is mentioned in the catalogue, it is understood that Chemistry 144-5-6 may be substituted by students qualified for the latter course.

The natural sequence of courses beyond the freshman year for those students majoring in Chemistry follows: Chemistry 234-5-6 and Chemistry 237-8-9, to be taken together in the sophomore year; Chem-

istry 343-4-5, in the junior year; Chemistry 441-2-3, or optional courses, in the senior year. It is strongly advised that Chemistry 441-2-3 be taken though the major requirement may be fulfilled without this course. Majors in Chemistry are further advised to fulfill their Modern Language requirement with German or French.

This Department advises that all pre-medical students take as many courses in chemistry as possible.

Basic Courses

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.
- 331-2. *Organic Chemistry*. 2 lecture hours, 3 laboratory hours. Prerequisite: Chemistry 141-2-3. A course designed especially for students of Agriculture and Home Economics and open to others only with permission of the instructor. This course cannot be counted in fulfilling the major requirement in chemistry, neither will it satisfy pre-medical requirements. Fall and Winter terms. Fee, \$3.00; deposit, \$6.00.
333. *Organic Preparations*. 9 laboratory hours. Prerequisite: Chemistry 343-4-5 and the consent of the instructor. A course in the preparation of organic substances by synthesis, with special attention to the methods of procedure and to yields. Fee, \$1.50; deposit, \$6.00.
338. *Analytical Methods*. 1 lecture hour, 6 laboratory hours. Prerequisite: Chemistry 331-2 or 343-4. A special course in analytical chemistry designed for those unable to take the regular course. This course will not be counted in fulfilling the major requirement in Chemistry. Spring term. Fee, \$1.50; deposit, \$4.00.
- 343-4-5. *Organic Chemistry*. 3 lecture hours, 3 laboratory hours. Prerequisite: Chemistry 141-2-3. A study of the compounds of carbon, providing a thorough foundation for other courses in organic, physiological, and industrial chemistry. This course meets pre-medical requirements. Fee, \$4.00; deposit, \$6.00.
430. *Inorganic Preparations*. 9 laboratory hours. Prerequisite: Chemistry 343-4-5 and Chemistry 237-8-9. The methods of preparation and purification of inorganic compounds. Fall term. Fee, \$1.50; deposit, \$4.00.
431. *Technical Analysis*. 9 laboratory hours. Prerequisite: Chemistry 343-4-5 and Chemistry 237-8-9. The analysis of fuels, feeds, alloys, rocks, and cements. Winter term. Fee, \$4.00; deposit, \$4.00.
432. *Water Analysis*. 9 laboratory hours. Prerequisite: Chemistry 343-4-5 and Chemistry 237-8-9. The mineral analysis of water. Spring term. Fee, \$1.50; deposit, \$4.00.
- 438-9. *Physiological Chemistry*. 2 lecture hours, 3 laboratory hours. Prerequisite: One course in organic and one course in analytical chemistry. An elementary course in physiological chemistry designed for Home Economics and Agricultural students. Open to other students with permission of the head of the department. This

course may be offered in partial fulfillment of the major requirement in chemistry only by those students presenting Chemistry 237-8-9 and Chemistry 343-4-5 as prerequisites. Not offered in 1931-32. Fee, \$3.00; deposit, \$6.00.

- 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.

For Graduates

Courses numbered 333, 430, 431, 432 and 441-2-3 may be taken for graduate credit.

Industrial and Engineering Chemistry Courses

- 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 343-4-5. 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.
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, \$1.50; deposit, \$6.00.

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

DEPARTMENT OF ECONOMICS AND BUSINESS ADMINISTRATION

Professor Condray. Associate Professors *Nissley, Pfarr. Assistant Professor Corry. Instructor Wolffarth.

The Department of Economics and Business Administration offers an opportunity for students to major in Economics and Business Administration either as candidates for the degree of Bachelor of Business Administration or of Bachelor of Arts. Students who wish to take the degree of Bachelor of Business Administration must meet the special requirements for that degree. Candidates for the degree of Bachelor of Arts may fulfill the major requirements with forty-five term hours in the Department of Economics and Business Administration.

Separate terms, being each the third of a course, are credited as independent units. However, the courses should be taken in proper sequence.

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 sole proprietorship and for partnership. Fee, \$4.00.
- 331-2-3. *Introduction to Business Administration.* Prerequisite: Economics 231-2-3. The first two quarters given to a study of the institutions and functions of business; plant location, personnel, marketing, finance. The third quarter deals with general business policies; policies and methods of a few well organized companies.

*Leave of absence, 1930-31.

- 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.

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 the 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, methods 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.
- 4333-34-35. *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.

Marketing Division

- 3040-41-42. *Typewriting*. Beginners course in typewriting covering a general knowledge of the care and operation of a typewriter, copy work, dictation, letter writing, and other business forms. Required for Economics 3340-41-42 but may be taken without taking Economics 3340-41-42. Fee, \$4.00 a year. Typewriter rental, \$4.00 a term.
3043. *Beginners Shorthand*. Beginners course covering the penmanship of shorthand, elementary phrase and sentence writing, and simple dictation. Fee, \$3.00. Non-credit course.
3044. *Intermediate Shorthand*. Continuation of Economics 3043. Business phrase writing, simple transcription, and the writing of short business letters. Fee, \$3.00. Non-credit course.
3045. *Advanced Shorthand*. Continuation of Economics 3044. Advanced dictation, transcription, and letter writing. Fee, \$3.00. Non-credit course.
- 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 per week and Economics 3040-3041-3042 required. Prerequisite: Economics 231-2-3. Office procedure, office equipment, office management. Business letters, inter-departmental communication, reports, forms, records.
- 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.

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 employees; 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 trade union movement; the development of the American Federation of Labor and its influence.

DEPARTMENT OF EDUCATION AND PSYCHOLOGY

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 in 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, which is designed to extend for one year a certificate of any grade. This requires 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 230 will satisfy the minimum requirement for a teachers certificate.

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.* 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.
138. *Methods in Elementary English.* Modern methods of teaching English fundamentals, both oral and written.
230. *Rural Education.* Practices, tendencies and improvements in rural schools. The relation of rural schools to rural life problems. See also Rural Education 231 under Agricultural Education.
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.
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.
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.
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.
2371. *Kindergarten-Primary Education*. Prerequisite: Education 237. A continuation of 237 dealing with specific methods of teaching 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.
330. *The Principal and His School*. Prerequisite: Junior standing in Education. (Not given in 1931-32).
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; articulation with the elementary school and the senior high school; study 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 instruction in methods of 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. *Character Education.* Prerequisite: Junior or Senior standing in Education. An analysis of present-day theory and practice in character building, pointing out the defects and derelictions of the past and showing how the school and the home may provide more training for improving the morals of pupils and rendering them more competent to discharge their social obligations.
3310. *Mental Tests.* Prerequisite: Education 3313. 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 and the professions.

*Education 337, 338, 339 are designed for teachers in service. Hours will be arranged to suit the convenience of the classes, probably on Saturdays.

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. Designed to handle problems of selection and organization of subject matter of the kindergarten and first three grades. Numerous 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.
3315. *Foundation of Methods.* Prerequisite: Junior standing in Education.
3316. *Group Study.* Prerequisite: Junior standing in Education.
430. *Sociological Principles of Education.* Prerequisite: Junior or Senior standing in Education. A comparison of the fields of psychology and sociology in relation to the principles and processes of education.
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.
4313. *Educational Measurements.* Prerequisite: Junior or Senior standing in Education. An extension of Education 3313 involving recent investigations in the field of tests and measurement processes.
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. (Not given 1931-32).
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. 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.
532. *Problems in Secondary Education.* For Senior or graduate students. An extension of Education 332 with opportunity for continuing the investigation of specific problems relative to the different phases of modern secondary education.
536. *Guidance Problems.* For Senior and graduate students. An extension of Education 336 with an opportunity to work out specific problems in guidance.
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. (Not given in 1931-32).
539. *Sociological Aspects of School Procedures*. Prerequisite: Senior or graduate standing and 27 term hours in Education. A continuation of Education 430 and deals with the social aspects of the necessary school room procedures. The role of educational sociology in school surveys, the school curriculum, method as an agency of socialization.

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 the 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: Three hours in Psychology. A course in applied psychology arranged specially for students interested in the psychology of advertising and salesmanship. (Not given in 1931-32).
331. *Child Psychology*. Prerequisite: Three hours in Psychology and Junior standing. 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. (Not given in 1931-32).

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. (Not given in 1931-32).
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. (Not given in 1931-32).
338. *Statistics*. Prerequisite: Junior standing. Fundamentals of Educational statistics. Fee, \$1.50. (Not given in 1931-32).
339. *Statistics*. Prerequisite: Junior standing. Continuation of 338. Fee, \$1.00. (Not given in 1931-32).

DEPARTMENT OF ENGLISH

Professors Carter, Doak, Mills, Smallwood. Associate Professors Cunningham, Fowler, Gates, McGee, Robnett, Strout. Assistant

Professors Horne, Hotson, Murphy. Instructors

Allen, Buckner, Gill, Knickerbocker,

Teague. Graduate Assistant Cox.

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. However, students who elect advanced courses in English with no thought of preparing themselves for teaching, or for further professional study, are permitted considerable freedom in the arrangement of an English program.

Courses required for an English major (with full indorsement of the department for teaching English, or toward a professional degree): English 332; 337 or 3370 or 534; 330; 432; 334 or 436; 430 or 431; 434 or 537; 435 or 436; 531 or 532 or 5330.

A full program of English study for the Master's degree is now possible. In August 1930, the following theses were accepted by the Department of English in partial fulfilment of the requirements for the Master's degree: An Etymological Study of Selected Old English Words, Harry M. Crain; Community Little Theater of Texas, Hubert C. Hervey; Changes in the Manuscripts of Wordsworth's "The Prelude," 1805-6 and 1850, Mary Hope Westbrook.

English 131-2-3 (Composition and Rhetoric) 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. Special English courses required of candidates for the degree of Bachelor of Business Administration are provided in English 3311-12, and in Journalism 3312.

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.
- 2313-14. *Special Work on Correct Usage*. Themes, reports, and much practical experience in precise writing. For Agriculture students.
- 3311. *English in Business Practice*. A study of the principles of English composition embodied in the best business practice.
- 3312. *Letter and Report Writing*. The planning and writing of business letters and the logical presentation of factual material in reports.

Language

- 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. Texts: Jespersen, Growth and Structure of the English Language; A Dictionary of Modern English Usage.
- 337. *Grammar for Speech*. A study of inflectional forms, sentence structure, and of the principles of grammar that may be useful in other languages. Text: Kittredge and Farley, Advanced English Grammar.

3370. *Historical English Grammar*. A study of the evolution of the English language, in relation to both history and literature, with particular attention to the operation of linguistic laws. Text: Wyld, *A Short History of English*.

Drama

334. *American Drama: From the Beginning to 1830*. Amateur performances on the frontier, professional companies, native playwrights, and plays, with emphasis on American scene and theme.
335. *American Drama: 1830 to 1900*. The geographical expansion of the theater, the dominance of theatrical centers, and the rise of the star system.
336. *American Drama: 1900 to the Present*. Stage movements, community organizations, individual playwrights, and specific tendencies in dramatic composition.
430. *Elizabethan Drama*. The plays of Dekker, Heywood, Chapman, Jonson, Middleton, Marston, Beaumont and Fletcher, Webster, Massinger, Ford, and Shirley in relation to the literary fashions that prevailed during the period. Text: Neilson, *Chief Elizabethan Dramatists*.
431. *Restoration and Eighteenth Century Drama*. Representative plays, with emphasis on Dryden, Otway, Congreve, Farquhar, Goldsmith, and Sheridan. Attention to sentimental comedy, bourgeois tragedy, comedy of manner, ballad opera, and other dramatic types. Text: Stevens, *Types of English Drama*.
432. *Shakespeare and the Background*. A close reading of several representative plays written before 1600: Richard III, Romeo and Juliet, Much Ado About Nothing, Twelfth Night. Texts: Oxford Three Volume Shakespeare; Harrison, *England in Shakespeare's Day*.
433. *Shakespeare Criticism*. A review of the more substantial contributions in Shakespeare criticism from Jonson to Chambers, together with the reading of Julius Caesar, Measure for Measure, Hamlet, Othello, and Cymbeline. Text: D. Nichol Smith, *Shakespeare Criticism*.
437. *Pre-Shakespearean Drama*. The development of the comedy, the tragedy, and the chronicle history from early types of drama in England. Emphasis upon the plays of Lyly, Peele, Greene, Kyd, and Marlowe. Text: Manly, *Pre-Shakespearean Drama*.
439. *Contemporary Drama: Ibsen to Shaw*. The dramatic work of Ibsen, Strindberg, Tolstoy, Chekhov, Hauptmann, Wedekind, Becque, Hervieu, Maeterlinck, Galsworthy, and Shaw.

Poetry

330. *Chaucer*. The prologue, tales, and lyrics, with some consideration of Chaucer's age, art, and sources. Texts: MacCracken, *The College Chaucer*; Coulton, *Chaucer and His England*.
333. *The Elizabethan Lyric*. A study of lyrics from many authors, stressing Spenser, Shakespeare, Jonson, Donne, and Campion. The simpler terms of versification. Text: Schelling, *Elizabethan Lyrics*.
338. *American Poetry: Bryant to Longfellow*. A study of the representative poetry of the period, with practice in reading aloud; drill in forms, metrics, and figures. Texts: Page, *Chief American Poets*.
339. *American Poetry: Whittier to Whitman*. Classification of poems as to type and theme. The distinguishing quality and style of the individual writer. Text: Page, *Chief American Poets*.
3390. *American Poetry: Emily Dickinson to the Present*. Trends, movements, and individual influences. The best poems of a few outstanding writers analyzed and appraised. Text: Untermeyer, *Modern American Poetry*.
3391. *Contemporary English Poetry*. John Masefield, Ernest Dowson, James Elroy Flecker, Rubert Brooke, Thomas Hardy, and others.
434. *Milton*. A study of Milton's prose and poetry; the sources, structure, metrical characteristics of "Paradise Lost," and its place in English poetry. Text: Moody, *Milton's Complete Poems*.
435. *English Romanticism*. A rapid survey of pre-Romantic literature; a study of the poetry and poetic principles of Wordsworth and Coleridge. Text: Woods, *English Poetry and Prose of the Romantic Movement*.
436. *English Romanticism*. The poetry of Scott, Shelley, Keats, and Byron, with some attention to their life and background. Text: Woods, *English Poetry and Prose of the Romantic Movement*.
4390. *English Poets of the Nineteenth Century: Arnold to Hardy*. A close study of the poetry of Matthew Arnold, Dante Gabriel Rossetti, Christine Rossetti, William Morris, Algernon Charles Swinburne, and George Meredith. Text: Page, *British Poets of the Nineteenth Century*, Part II.
4391. *Tennyson and Browning*. The major and minor poetry of Tennyson and Browning, with special emphasis upon "In Memoriam" and "The Ring and the Book."

4392. *Dryden and Pope*. The major poetry of Dryden and Pope, with some emphasis on the translations, particularly those of Chaucer's poetry. Texts: W. D. Christie, *Dryden's Poetical Works*; A. W. Ward, *Pope's Poetical Works*.
537. *Spenser*. The shorter poems, and selected cantos of *The Faerie Queene*, with incidental interpretation of allegory in the poem. Text: *The Cambridge Spenser*.

Prose and Prose Fiction

438. *Nineteenth Century English Prose*. A critical study based upon selected works of masters of modern English prose—Hazlitt, Macaulay, Lamb, DeQuincey, Carlyle, Ruskin, Arnold, and Newman. Text: Alden, *Readings in English Prose in the Nineteenth Century*.
530. *The Contemporary Short Story*. A consideration of short stories by Cobb, Conrad, Dreiser, Galsworthy, Mansfield, Steele, Dobie, Walpole, Wells, Tarkington, and others. Text: Robinson, *Contemporary Short Story*.
531. *The American Novel*. A study of American fiction to Dreiser, with some attention, in lectures, to the historical background. Students read from a selected list of books.
532. *The English Novel: Lyly to Scott*. Lectures on the development of the English novel, with reading by the class of such works as *Moll Flanders*, *Pamela*, *Joseph Andrews*, *Humphrey Clinker*, *The Castle of Otranto*, *Pride and Prejudice*, and *Guy Mannering*.
533. *Types of English and Foreign Fiction: 1825 to 1910*. A consideration of the novels of Dickens, Thackeray, Emily Bronte, and Hardy, with significant examples from foreign fiction.
536. *Contemporary English and American Essay*. A study of the English and American essayists, with special attention to Powys, Hudson, Morley, Canfield, Chesterton, Russell, Belloc, Woolcott, and Sherman. Text: Brown, *Essays of Our Times*.
5330. *The Structure of the Novel*. A detailed study of the elements of the novel, with some consideration of the principles of craftsmanship which make for effective fiction.

General Literature

236. *Biblical Literature*. The influence of the Bible upon literature, with special reference to Shakespeare, Milton, Browning, and a few outstanding contemporary poets of England and America. Prerequisite: English 231. Texts: Cunliffe and Battenhouse, *Century Readings in the Bible*; Marchant, *Anthology of Jesus*.

3310. *The Teaching of English in the High School.* A study of some effective methods, with attention to the problems commonly found in the teaching of English in the high school. Actual classroom practice and demonstration. Texts: Thomas, *The Teaching of English in the Secondary School*; Bolenius, *Literature in the Junior High School*.
4393. *The Age of Johnson: Johnson and His Circle.* English literature from 1740 to 1798, exclusive of the novel. An introduction of Dr. Johnson, Boswell, Goldsmith, Burke, and their circle, with some attention to the pre-romanticists.
4394. *Literary Biography: Its Functions and Place in Letters.* A study of the works of such biographers as Boswell, Pepys, Cellini, and Franklin, as they reflect the social and political conditions, the art, the science, and the literature of their times.
4395. *Greek and Roman Literature in Translation.* A presentation of significant figures of Greece and Rome from Homeric times to the threshold of the Middle Ages, for their intrinsic interest and as a background to English and American literature. Text: Grant Showerman, *Century Readings in Ancient Classical Literature*.
538. *Southern Literature: Important Writers and Speakers of the South.* Some emphasis on the effects which regional ideals, interests, and social conditions have had in furnishing distinctive themes and in giving local color to the literary productions.

For Graduates

534. *Old English.* An introduction to the phonology and morphology of Old English. Text: Flom, *Old English Grammar and Reader*.
535. *Beowulf.* Reading and discussion of selected passages from the Wyatt and Chambers edition of the *Beowulf*. Supplementary Text: Lawrence, *Beowulf and Epic Tradition*.
540. *The History of Literary Criticism.* Aristotle, Longinus, Dante, the Elizabethans, Dryden, Lessing, Sainte-Bauve, and Matthew Arnold.
541. *Wordsworth and the French Revolution.* A story 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." Text: The Oxford Wordsworth.
542. *Seminar: American Poetry and Poetic Theory.* The poetic principles set forth by American poet-critics from Poe to Untermeyer. The appraisal of well-known poems by theoretic criteria. Lectures, class discussions, and oral and written reports on assigned topics.

544. *Seminar: Byron, Shelley, and Keats.* The longer poems of the later romantics, from Coleridge to Keats. Walter Scott and the German Gothic; Southey's ballads and romances; Shelley and Godwinism; Moore; Campbell; Byron and the "Satanic School"; the poetical development of Keats. Texts: Oxford Editions of Standard Authors—Byron; Shelley; Keats.
550. *Chaucer: The Longer Poems.* A comparative study of Chaucer's *Troilus* and Boccaccio's *Il Filostrato* and of Chaucer's *Romaunt of the Rose* and *Clopinel* and de Lorris' *Roman de la Rose*. Texts: Root, Chaucer's *Troilus* and *Criseyde*; Griffin and Myrick, the *Filostrato* of Giovanni Boccaccio.
630. *Outline of American Literary History: 1608 to 1861.* An orientation course primarily for graduates and for undergraduates with an English major, especially those who intend to teach English in high school. Chronology, literary types, sectional movements, and foreign influences in connection with individual writers.
631. *Outline of American Literary History: 1861 to 1900.*
632. *Outline of English Literary History: 600 to 1660.* A chronological survey of English literature and its historical background, offering an intensive review of English literature for candidates for the Master's degree.
633. *Outline of English Literary History: 1660 to 1900.*

JOURNALISM

234. *Newspaper Reporting and Writing.* An introduction to journalism, dealing primarily with the problems and methods of the news gatherer and writer. Textbook in connection with laboratory practice in writing. Text: Harrington and Frankenberg, *Essentials in Journalism*.
235. *Newspaper Reporting and Editing.* A continuation of Journalism 234, combining the functions of gathering, writing, and handling news; intensive training in writing and various types of news stories, building heads, re-writing, and make up. Text: Carl N. Warren, *News Reporting*.
236. *Copyreading and Headline Writing.* Practice in copyreading and headline writing; consideration of newspaper style, writing leads, typographical styles, make-up, proofreading, and the various types of stories. Text: George C. Bastian, *Editing the Day's News*.
310. *Problems, Principles, and Practice.* A one-hour course for the staff members of the college publications; lectures by faculty members and practical newspaper men, followed by round-table discussions.

334. *Advertising.* A study of the fundamentals of advertising, the various media of advertising, the psychology of advertising, and the technique of writing copy, with practice and a study of current advertising. Text: George Burton Hotchkiss, *Advertising Copy*.*
335. *Special Feature Articles.* A complete study of the feature article, with regard to field, subject, material, appeal and purpose, type, and style. How to write the article, choose an attractive title, illustrate it, sell the manuscript, will be discussed and worked out by the practical writing of articles. Text: H. F. Harrington, *Chats on Feature Writing*.
337. *Problems of the Community Newspaper.* Problems of the weekly and small daily newspaper—a study of organization, sources of income and expenditure, advertising and circulation, news services, salaries and wages, unions, publishers' associations, and general business problems. Text: Buford O. Brown, *Business Problems of the Newspaper*.
338. *Editorial Writing.* Theory and practice of editorial writing, including consideration of the types of editorials, with analysis as to style, content, and purpose; attention to technique and much practice. Text: M. Lyle Spencer, *Editorial Writing*.
339. *History of American Journalism.* The origin and growth of the American newspaper from the colonial sheet to the metropolitan journal of today; biographical study of American journalists; individual study and research. Text: W. G. Bleyer, *The History of American Journalism*.
3312. *Writing for Print.* The preparation of manuscripts for publication; guidance in the collection and filing of material, and the writing of commercial stories and articles for trade papers, house organs, and business investigations and projects. Lectures and conferences. Text: Harrington and Harrington, *Writing for Print*.
430. *Principles of Journalism.* A study of the freedom of the press, the ethics of magazine and newspaper publication, the relation of the press to society, and the law of libel. Texts: N. A. Crawford, *The Ethics of Journalism*; Arthus and Crosman, *The Law of Newspapers*.
431. *Publicity.* Publicity programs of business, educational, and religious institutions; publicity plans analyzed for colleges, chambers of commerce, churches, community chests and other drives, municipalities, and states. Text: Glenn C. Quiet, *Principles of Publicity*.
432. *High School Publications.* A study of the problems confronted by a publications supervisor, in organizing and maintaining high school newspapers and year books, functions of high school publica-

*This course will be accepted for credit by the department of Business Administration for Advertising 431.

tions, organization and training of the staff, and editorial and business problems. Text: Lambert Greenawalt, *School Press Management*.

530. *The Short Story*. A study of the short story from the structural point of view, with special attention to students who desire practice in writing the form.

DEPARTMENT OF FRENCH

Professor Beck. Associate Professor Henninger.
Assistant Professor Farrow.

- 131-2-3. *A Course for Beginners*. Grammar, reading and oral practice.
- 231-2-3. *Grammar Review, Reading, Oral and Written Practice*. Prerequisite: French 131-2-3, or two years of high school French.
- 331-2-3. *Nineteenth Century and Present-Day Literature*. Prerequisite: French 131-2-3, 231-2-3, or four years of high school French. Standard texts. The first term, short stories will be read; the second term, several plays; the third term, novels. Individual assignments for parallel study with reports. Oral practice and composition based on readings.
- 431-2-3. *The Classic Drama*. Prerequisite: French 331-2-3, or its equivalent. An intensive study of representative plays. Lectures, assigned readings, term papers. Selected texts for methodic interpretation, "La Lecture Expliquée." For advanced undergraduates and graduate students.

DEPARTMENT OF GEOLOGY

Professor Patton. Associate Professors Stainbrook, Robinson.
Assistant Professor Sidwell.

Students who desire preparation for work with the geological departments of oil companies should register either for the curriculum in Petroleum Geology in the School of Liberal Arts or for the curriculum in Geological Engineering in the School of Engineering. The latter emphasizes training in engineering subjects in addition to work in geological subjects.

Students may elect to major in geology without pursuing either of these curricula but their courses must be selected 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 131-2-3. Geography 131-2-3 may be taken as a second science.

PETROLEUM GEOLOGY CURRICULUM

FALL			WINTER			SPRING		
Geol.	131	Gen. Geol.	Freshman Year			Geol.	133	Gen. Geol.
Eng.	131	Composition	132	Gen. Geol.		Eng.	133	Composition
Math.	131	Algebra	132	Composition		Phil.	231	Int. to Phil.
Chem.	141	Gen. Chem.	142	Trigonometry		Chem.	143	Gen. Chem.
*For. Lan.	131	For. Lan.	132	Gen. Chem.		For. Lan.	133	For. Lan.
Orien.	121	L. A. Orien.						
P. T. or M. S.						P. T. or M. S.		
Geol.	231	Mineralogy	Sophomore Year			Geol.	233	Mineralogy
Eng.	231	Int. to Lit.	232	Mineralogy		Eng.	233	Int. to Lit.
Phys.	141	Gen. Phys.	142	Gen. Phys.		Phys.	143	Gen. Phys.
Geol.	321	Mineral Res.	322	Mineral Res.		Geol.	323	Mineral Res.
or			or			or		
Geog. Lan.	131	Human Geog.	132	Business Geog.		Geog.	133	Business Geog.
*For. Lan.	231	For. Lan.	232	For. Lan.		For. Lan.	233	For. Lan.
P. T. or M. S.						P. T. or M. S.		
Field Geology 294 (First term of Summer School. May be taken any summer but should not be taken later than summer after completion of Junior year required).								
Geol.	337	Inver. Paleo.	Junior Year			Geol.	339	Inver. Paleo.
Geol.	334	Petrology	338	Inver. Paleo.		Geol.	336	Petrology
Geol.	421	Structural Geol.	335	Petrology		Geol.	423	Structural Geol.
C. E.	241	Plane Surveying	422	Structural Geol.		C. E.	243	Plane Survey.
Geol.	311	Geol. of Texas	242	Plane Surveying		Geol.	313	Geol. of Texas
Geol.	413	Seminar	312	Geol. of Texas		Geol.	415	Seminar
			414	Seminar				
Geol.	431	Ad. Gen. Geol.	Senior Year			Geol.	433	Ad. Gen. Geol.
Geol.	424	Geol. of Petro.	432	Ad. Gen. Geol.		Geol.	426	Geol. of Petro.
Eco.	231	Int. to Eco.	425	Geol. of Petro.		Eco.	233	Int. to Eco.
Geol.	427	Micro.	232	Int. to Eco.		Geol.	429	Micro.
Geol.	417	Index Fossils.	428	Micro.		Geol.	419	Index Fossils
C. E.	334	Surveying	418	Index Fossils		Geol.	330	Geol. Mapping
			220	Anat. Government				

*Students who expect to take the U. S. Geological Survey Civil Service Examinations should elect French or German. French or German is also desirable for anyone who contemplates graduate work. Students entering with 3 units of foreign language will be required to take but one year of the same language in college, and an elective course may be substituted.

1. Students entering with but 2 units of social science will be required to substitute two terms of social science for courses in the above curriculum which are not general Liberal Arts requirements. Substitution may be made only after consultation with the head of the department.

For Undergraduates

131-2-3. *General Geology*. 2 class 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.

231-2-3. *Mineralogy*. 1 class hour, 6 laboratory hours. Prerequisite: Preceded or accompanied by Chemistry 141-2-3. Principles of crystallography; methods of identification of minerals; blowpipe analysis; occurrence and properties of minerals. Fee, \$4.00.

294. *Field Geology*. Prerequisite: Geology 131-2-3. Registration only after consultation with the head of the department. An intensive course given in the field on the principles of stratigraphy, structural geology, and methods of geological surveys. A selected area will be studied and mapped in detail by the class. The field for 1931 will be the Pagosa Springs quadrangle in southwestern Colorado. A detailed report in the form of a scientific treatise fully prepared for publication will be required of each student after the completion of the field work. No graduate in Geology will be recommended for a position in the geological departments of oil companies who has not had this course. Given only in the summer term. At the beginning of the course each student will be required to deposit \$75.00. From this as a common fund all expenses for fees, living expenses, transportation, etc., for the six weeks will be paid. Any unused portion will be returned pro rata.

311-2-3. *Geology of Texas*. 1 class hour. Prerequisite: Geology 131-2-3. Physical and historical geology of Texas.

321-2-3. *Mineral Resources*. 2 class hours. Prerequisite: Geology 141-2-3. Characteristics, occurrence, distribution, structure, and origin of the principal mineral deposits and economic problems connected with these deposits.

330. *Geologic Mapping*. Prerequisite: Geology 131-2-3, 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. *General Geology for Engineers*. 2 class hours, 3 laboratory hours. A course in general geology adapted to the special needs of students in Civil Engineering. Fee, \$3.00.

For Advanced Undergraduates and Graduates

334-5-6. *Petrology*. 1 class hour, 6 laboratory hours. Prerequisites: Geology 141-2-3, Geology 231-2-3. 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, identification of minerals and rocks by means of the petrographic microscope. Fee, \$4.00; deposit, \$5.00.

337-8-9. *Invertebrate Paleontology*. 2 class hours, 4 laboratory hours. Prerequisite: 141-2-3. A study of the detailed structures, bases of classification, and geologic history of various groups of invertebrates: paleozoic index fossils. Fee, \$4.00.

413-4-5. *Seminar*. Prerequisite: Junior or Senior standing. Assigned readings and discussions of current geological problems.

417-8-9. *Mesozoic and Cenozoic Index Fossils*. 3 laboratory hours. Special attention to stratigraphy and the chief horizon markers with some practice in the identification of field collections. Must accompany 427-8-9. Fee, \$1.50.

421-2-3. *Structural Geology*. 2 class hours. Prerequisite: Geology 141-2-3, 337-8-9, 334-5-6. Deformation and structures of rocks with special emphasis on the bearing of these on economic problems.

424-5-6. *Geology of Petroleum*. 1 class hour, 3 laboratory hours. Prerequisite: Preceded or accompanied by Geology 421-2-3. For students expecting to engage in the exploration and development of oil fields. Includes a study of the problems of origin and accumulation of oil deposits, assembling and interpretation of data bearing on problems peculiar to certain fields. Fee, \$4.00.

427-8-9. *Microfossils*. 1 class hour, 3 laboratory hours. Study of the foraminifera and other microfossils of the oil-bearing strata of Texas. To be accompanied by 417-8-9. Fee, \$2.50.

431-2-3. *Advanced General Geology*. 2 class hours, 3 laboratory hours. Prerequisite: Geology 131-2-3, 231-2-3, and 337-8-9. An intensive study of the outstanding problems in physical and historical geology. Reading in the original literature of each subject. Fee, \$4.00.

For Graduates

441-2-3: 444-5-6: 447-8-9. *Advanced Work in Specific Fields*. Prerequisite: Thirty-six term hours in Geology and Senior or Graduate standing. Course and credit to depend upon the preparation and needs of the student. Registration only with the approval of the head of the department. Fee, \$4.00.

517-8-9. *Sedimentary Petrology*. Prerequisite: Thirty-six hours of geology, including Geology 334. To accompany Geology 524-2-3. An application of the principles of petrology to the study of sedimentary rocks. Study of sedimentary rocks in thin sections and methods of study and identification of mineral grains: Micro-chemical tests; use of index of refraction liquids. Fee, \$1.50.

- 521-2-3. *Sedimentation*. 1 class hour, 3 laboratory hours. Prerequisite: Thirty-six term hours in geology, including Geology 334-5-6 and preceded or accompanied by Geology 517-8-9. An advanced investigative course including the processes and results of sedimentation together with analytical laboratory work in sediments. Special attention to subsurface methods. Fee, \$2.50.
- 531-2-3. *Master's Thesis in Geology*. Registration only after consultation with the head of the department. Field or laboratory, and library work in the investigation of a specific problem in geology and preparation of a report in proper form.

GEOGRAPHY

- 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.

DEPARTMENT OF GERMAN

Professor Beck. Associate Professor Henninger.

- 131-2-3. *A Course for Beginners*. Grammar, reading and oral practice.
- 231-2-3. *Grammar Review, Reading, Oral and Written Practice*. Prerequisite: German 131-2-3, or two years of high school German.
- 331-2-3. *Nineteenth Century and Present-Day Literature*. Prerequisite: German 131-2-3, 231-2-3, or four years of high school German. Standard texts. The first term, short stories will be read; the second term, several plays; the third term, novels. Individual assignments for parallel study with reports. Oral practice and composition based on readings.
- 334-5-6. *Scientific German*. Prerequisite: German 131-2-3, 231-2-3, or four years of high school German. Offered only if there is a satisfactory demand. 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.
Instructor J. W. Jackson.

The study of Government aims to train and prepare men and women for responsible citizenship, intelligent voting, efficient public service, leadership in public affairs, the holding of public office, and the organization of public opinion.

Government 131-2-3 or some other course in American Government is required of all students. Government 131-2-3 or 331-2 plus an independent course carrying three hours credit may be taken to satisfy the legal requirement for certification and graduation, and also to absolve a part of the catalogue social science requirement for graduation.

131-2. *American Government, National.* For freshmen. Sophomores, juniors, and seniors will take 331. A fundamental course dealing with the constitution, principles, organization, and actual workings of the national government. Emphasis will be placed upon the duties and obligations of citizenship.

133. *American Government, State.* For freshmen. Sophomores, juniors, and seniors will take 332. A study of the constitution and framework of the government of Texas and a comparison with other state governments.

230. *American Government, National and State.* An intensive study of American Government both national and state. The work is largely based upon the constitutions of the United States and Texas.

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 other states to be selected.

330. *Business Law.* For engineering students.

331. *American Government, National.* For sophomores, juniors, and seniors who have not had Government 131-2.

332. *American Government, State.* For sophomores, juniors and seniors who have not had Government 133.

3311. *Municipal Government.* Prerequisite: Government 131-2-3. This course deals with the machinery of city government, the forms—both new and old—of municipal government, inter-departmental relations, and the relations of the city to the state.

3312. *Municipal Administration.* Prerequisite: Government 131-2-3. This course deals with a study of the chief problems of present-day municipal administration, with special stress placed upon the administration of Texas cities.

3314. *County Government and Administration.* Prerequisite: Government 131-2-3. In this course the present-day organization of counties is examined, and the functions of county supervisors, prosecuting attorneys, sheriffs, and other local officers in Texas are studied.

3331. *Contemporary Legislation*. Prerequisite: Junior standing. This course consists of an analysis of contemporary and current political, social, and economic legislation.
3351. *American Political Parties, Party Development*. Prerequisite: Government 131-2-3. A survey of the origin and development of political parties in the United States.
3352. *American Political Parties, Party Analysis*. Prerequisite: Government 131-2-3. A study of party functions, organization, finance, campaign methods and elections.
- 3371-2. *American Diplomacy and Foreign Service*. Prerequisite: Government 131-2-3, or American History. A study of American foreign policies and of the organization of the State Department and Foreign Service.
3391. *World Politics*. Prerequisite: Government 131-2-3 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.
- 431-2-3. *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.
4311. *American Constitutional Law*. Prerequisite: Government 131-2-3 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.
- 4321-2-3. *American Political Ideals*. Prerequisite: Government 131-2-3 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.
- 4331-2. *International Law*. Prerequisite: Government 131-2-3 or 9 consecutive term hours of History. A study of the fundamental principles of International Law with special emphasis upon American interpretations and contributions.
- 4341-2. *Political Geography*. Prerequisite: Junior standing. A study of the geographic factors in political problems and the development of political institutions, so as to acquaint the student with the main problems of politics in their relation to world geography.
- 531-2-3. *Research*. For graduate students. Registration may be made only upon the approval of the head of the department.

DEPARTMENT OF HISTORY

Professors Granbery, Eaves, Ford, Holden, McKay.

Associate Professors Carroll and 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.* A survey of world history, fundamental for further study. The three units correspond respectively with Ancient, Medieval, and Modern History.

231-2-3. *History of the United States.* Business Administration students with sophomore standing may be enrolled without the prerequisite.

234-5-6. *History of British Civilization.* Pre-law students, although of the freshman year, will be admitted without the prerequisite.

331-2-3. *History of Europe Through the Renaissance.* A study of Greek, Roman, and Medieval civilization.

334-5-6. *Modern Europe to 1900.* This period begins with the Reformation.

337-8-9. *History of Latin America.* Exploration, colonization, revolution, political development, social and economic problems, and Pan-American relations.

411-2-3. *History of American Diplomacy.* A one-hour course running through the long session, except when given all in one term.

430. *Constitutional Developments in Texas.* Constitution of the Republic of Texas, early statehood, the Civil War decade, the formation and adoption of the Constitution of 1876, amendments and present tendencies.

- 431-2-3. *History of Colonial America.* The discovery, exploration, and settlement of the thirteen colonies, and their economic, political, and social development.
- 434-5-6. *History of the United States, from the American Revolution to 1828.* A detailed study of the American Revolution, the Confederation, the formation and adoption of the Constitution, and the events that followed.
- 437-8-9. *History of Texas.* Exploration, colonialization, revolution, the republic, statehood, expansion of the frontier across West Texas, and social and economic problems.
530. *Teaching of History in the High Schools.* Methods of teaching history in junior and senior 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. *Twentieth Century Europe.* Rivalries and alliances leading to the World War, world politics, the treaty of Versailles, the League of Nations, reparations, dictatorships, and bolshevism.
- 533-4-5. *History of the United States, 1829-1876.* Economic, legislative, and political history of slavery in the United States, the Old South, secession, the Civil War, and reconstruction.
- 536-7-8. *History of the United States Since 1877.* The agrarian crusade, the free silver movement, big business, the new nationalism, the World War, and present day problems.
539. *Social and Economic Development of the Great Plains.* The Buffalo slaughter, the range cattle industry, the ranching industry, effects of the industrial revolution, railroads, and settlers.
630. *History of Modern Russia.* The Soviets and Bolshevism and their influence in world politics are studied.
- 631-2-3. *The British Commonwealth of Nations.* The series of developments within the British Empire that have culminated in the present Commonwealth of Nations.
634. *Anglo-American Relations.* Anglo-American relations from 1783 to the present.
- 637-8-9. *History of the Orient.* The civilization of Asia, especially of the Far East, from ancient times to the present.

PHILOSOPHY

231. *Introduction to Philosophy.* This satisfies the requirement in philosophy for the degree of Bachelor of Arts.
232. *Logic.* Continuation of Philosophy 231. Scientific method, correct reasoning, induction and deduction, and fallacies.

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 city.
- 334-5-6. *Social Pathology*. Society in its abnormal aspects: maladjustments.
- 337-8-9. *History of Social Thought*. Social thought 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*. Race differences and race relations.

ANTHROPOLOGY

- 331-2-3. *Anthropology*. Development of man from his origin, and a study of races, with special reference to prehistoric races 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.
- 437-8-9. *North American Archaeology*. A field course consisting of lectures, research, and excavation. Permission of the instructor must be secured.

DEPARTMENT OF LATIN

Professor Gordon. Assistant Professor Dingus.

A student credited with four admission units in Latin should take Latin 237. Such a student, on completing the work of 237-8-9, with an average grade of B, will be given degree credit for six term hours in addition to the value of Latin 237-8-9, 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.

111-2-3. *Writing Course*. Required of all students wishing the recommendation of the department as teachers of Latin. Strongly recommended for all students offering two or more units in Latin.

131-2-3. *Beginning Latin*. (Formerly 101-2-3). Forms, word formation, the fundamentals of syntax, and easy reading. Especially recommended for students preparing for law or medicine, as well as those electing Latin for the degree requirements.

231-2-3. *Reading and Composition*. (Formerly 131-2-3). Prerequisite for 231-2: two units of high school Latin. Prerequisite for 233: three units of high school Latin. Selections from Caesar, Cicero and Vergil. A review of Latin grammar; informal instruction in mythologies and antiquities.

237-8-9. *Prose Authors and Poets*. (Formerly 231-2-3). Prerequisite: Latin 231-2-3 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*. Prerequisite: Latin 237-8-9 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. Prerequisite: Latin 233, and 237-8-9 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 237-8-9 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.

434. *Horace: Satires and Epistles.*

DEPARTMENT OF MATHEMATICS

Professors Michie, Sparks. Associate Professors Thompson, Underwood. Assistant Professors Langston, Stafford, Heineman.
Instructors Christianson, Rodeffer. Acting
Assistant Professor Edmonson.

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 131-2-3 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 of algebra must take Mathematics 130, 131 and 132. Students without credit in trigonometry are required to take Mathematics 131 and 132. These two courses may be taken, also, by students with more than 15 entrance credits; but students with only 15 credits including trigonometry are required to take Mathematics 131 and 133. Students majoring in Business Administration are required to 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 30 term hours in mathematics. Students majoring in physics or chemistry are strongly advised to take advance 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 into graduate work in mathematics, it is essential that the student should have had college algebra (131, 232, 233), trigonometry (132), analytical geometry (133, 231, 330), calculus (234, 235, 236, 336), and theory of equations (331-2-3).

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, chemistry, 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, 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: The same as for 131. Trigonometric functions of angles, logarithms, circular measure, and the solution of right triangles.
133. *Trigonometric Analysis and Introduction to Analytic Geometry.* Trigonometric formulas, identities and conditional equations, oblique triangles, the straight line and circle.
- 137-8-9. *Mathematics Preparatory to Finance, Insurance, and Statistics.* 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 the equivalent. Designed for teachers of arithmetic in the first seven grades.
231. *Analytic Geometry*. Prerequisite: Mathematics 133. The conic sections, transformation of coordinates, polar coordinates, and elements of solid analytics.
- 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. *Differential and Integral Calculus*. Prerequisite: Mathematics 231. Differentiation, maxima and minima, rates, formal integration.
236. *Applications of the Differential Calculus*. Prerequisite: Mathematics 234. Parametric and polar equations, curvature, indeterminate forms, partial differentiation.
- 237-8-9. *Mathematics of Finance and Insurance*. (Formerly 337-8-9). Prerequisite: Mathematics 137-8-9. Interest, annuities, amortization, sinking funds, depreciation, bonds, building and loan associations, and the elements of actuarial science.
330. *Solid Analytical Geometry*. Prerequisite: Mathematics 231. A study of the equations of space, curves, planes, lines, and quadric surfaces.
- 331-2-3. *Elementary Theory of Equations*. (Formerly 237-8-9). Prerequisite: Mathematics 234-5-6. Complex numbers, numerical equations, symmetric functions, and determinants.
- 334-5. *The Teaching of Secondary Mathematics*. Prerequisite: Mathematics 234-5-6. A thorough study of the number system; axioms, objectives, and classroom practices in algebra and geometry.
336. *Infinite Series*. Prerequisite: Mathematics 236. Tests for convergence, Taylor's and Maclaurin's series, differentiation and integration of series, functions defined by definite integrals.
- 337-8-9. *Elements of Statistics*. (Formerly 2310-11-12). Prerequisite: Mathematics 237-8-9. A study of averages, dispersion, frequency distribution, curve fitting, simple and multiple correlation, with applications to economics, and business administration.

Primarily for Graduates

430. *Finite Differences*. Prerequisite: Mathematics 234-5-6. The elementary theory 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 the calculus; power series; Gamma and Beta functions; line, surface, and space integrals; vectors; ordinary differential equations; Bessel functions; partial differential equations; calculus of variations; elliptic integrals.
- 434-5-6. *Higher Algebra*. Prerequisite: Mathematics 331-2-3 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 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

The engineering curricula require engineering students to take the following courses in Mathematics: Freshmen take both Mathematics 1310 and 1311 in the fall term, 1312 in the winter term, and 1313

in the spring term; sophomores and juniors take 2321-22-23, and 3311. Mathematics 3312 is taken by all junior engineering students except Textile Engineers and Architectural Engineers. Mathematics 3313 is taken by junior Civil Engineers 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, solution 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 Analytic Geometry*. Trigonometric formulas, identities and conditional equations, oblique triangles, analysis of curves, loci, the straight line, and the circle.
2321. *Analytic Geometry*. The conic sections, transformation of coordinates, polar coordinates, 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, moments of inertia, pressure, work, series, indeterminate forms, hyperbolic functions, partial differentiation.
3313. *Differential Equations*. Methods of solution of the elementary types of differential equations, with some applications.
- 4311-12-13. *Advanced Applied Mathematics*. Prerequisite: Mathematics 431-2-3, or its equivalent. Open to seniors and graduate students. (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.

For Home Economics Students

1300. *Mathematics for Students of Home Economics*. Selected topics from advanced arithmetic, algebra, and statistics, with special application to problems arising in Home Economics.

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, Mondays, 4:00 to 4:55 p. m.

Glee Club for Men, Mondays, 7:30 to 9:00 p. m.

College Band, Mondays to Fridays inclusive, 7:00 to 8:00 a. 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.

Only nine term hours of Music may be offered as electives toward the Bachelor of Arts Degree. Those wishing to teach Public School Music may offer a minor of twenty-seven term hours, or a major of forty-five term hours if given special permission by the Dean and by the Head of the Department.

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. Fee, \$1.00.

Academic Music

134-5-6. *Elementary Music.* Ear training in tone and rhythm and the construction of melodies.

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.

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).

A student intending to major in Public School Music must have Music 134-5-6, 137-8-9, 234-5-6, 334-5-6, 534 and 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.

*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 "Special Fees" in another part of this catalogue for list of instructors and fees.

Each year of Applied Music must be accompanied by one term of Academic Music, which carries college credit.

Voice

Freshman Year: Fundamentals of voice production; Modern Songs.

Sophomore Year: Continuation of fundamentals; Standard book of studies; classic songs.

*May be counted as Education.

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; Beethoven, Schumann, Dvorak, and compositions by selected composers.

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. The object of this course is to help the student just entering college to adjust himself more easily to college life. A credit course is given as outlined below.

121. *Orientation.* 2 class hours, and a convocation as the conduct of the course demands. Required of all freshmen in Liberal Arts. Textbook work and lectures bearing upon such problems as the change from high school to college, how to study, the use of the library, budgeting time and money, choosing a vocation; and the more personal problems such as personal hygiene, social conventions, religious experiences, and other phases of life.

DEPARTMENT OF PHYSICAL EDUCATION

PHYSICAL EDUCATION FOR MEN

Professors Cawthon, Smith. Associate Professors Golightly, Morgan. Instructor Killin.

Every male student is required to take physical education or military science 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 designed for players, but are planned specifically with coaching in mind.

101-2-3. *Physical Training*. Required of freshmen (Option, Military Science). Athletic games, callisthenics 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 Science). 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 SCIENCE

Military Science is optional in the College. The student may elect Military Science or Physical Training, or both, as he chooses.

The courses in Military Science parallel the courses prescribed by the Government in its schedule of instruction for Infantry, Reserve Officer's Training Corps. A minimum of three hours per week is required. Uniforms are required.

101-2-3. *Military Science*. Required of freshmen (Option, Physical Training). Infantry, close order drill, command and leadership, Military courtesy, military hygiene and first aid, and physical drill.

104-5-6. *Band: Military Science*. A study of the drill and training of a military band.

- 107-8-9. *Military Science*. This course is for the members of the Service Battery, 131st Field Artillery, T. N. G. No other persons are eligible except by written permission of the P. M. S. & T.
- 201-2-3. *Military Science*. Required of sophomores (Option, Physical Training). A continuation of 101-2-3, with the addition of target, sub-calibre, range work, scouting and patrolling, musketry, interior guard duty, map reading and map making.
- 204-5-6. *Band: Military Science*. A continuation of 104-5-6.
- 207-8-9. *Military Science*. A continuation of 107-8-9.
- 331-2-3. *Military Science*. Prerequisite: Military Science 101-2-3 and 201-2-3 or the equivalent, or permission of the instructor. A study of machine-gun organizations and principles.
- 431-2-3. *Military Science*. Prerequisite: Military Science 331-2-3, or its equivalent, or permission of the instructor. A study of military law, rules of land warfare, military history and policy of the United States, administration, field engineering, and combat principles. Seminar is used in part of this course in connection with governmental records.

PHYSICAL EDUCATION FOR WOMEN

Assistant Professors Gilkerson and Reigel. Student Assistant Robertson.

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:

<i>Freshman Year—</i>	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	
<i>Sophomore Year—</i>		
English 231-2-3	9	
Government 131-2-3	9	
Zoology 134-5-6	9	
A foreign language (continuation of first year)	9	
Elective	9	
Physical Education 201-2-3		

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

031. *Health and Physical Education.* A study of health problems, health activities, and physical education in relation to the development of the school child. Special nutrition lectures are included. Winter term.

231. *Plays and Games.* Begins with a study of group and unorganized games and leads up to highly organized games and sports. The games taught are suitable for schools, playground, and social recreation. Fall term.

232. *History of Physical Education.* A study of the development of physical education including a survey of the literature. Fall term.

233. *Methods in Elementary Physical Education.* A complete organization of the methods of teaching physical education in the elementary schools taking into consideration the work most adaptable to each grade. Winter term.
234. *Methods in Secondary Physical Education.* An organized study of the methods of teaching physical education in secondary schools, including health examinations and the preparation of a complete program of physical education. Spring term.
236. *Technique of Sports.* Baseball, tennis, volleyball, soccer, basketball, and tenniquoits. Instruction in technique and rules with demonstrations of the various sports. Some practice will be given in playing as well as officiating for these sports. Spring term.
237. *Physiology of Exercise.* A study of benefits and results of exercise. Experiments determining the value of exercise will be conducted. Spring term.

DEPARTMENT OF PHYSICS

Professors George, Mast, Abbitt. Associate Professors Hill, Schmidt.
Student Assistants: Cross, Beard, Glenn, Glover,
Hatchett, Houston.

The elementary courses in physics are designed to cover the fundamental physical laws and principles which have played so prominent a part in the material advancement of human society. The aim is to teach something of the play of forces in the material world. More advanced courses lead to astronomy, meteorology, 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 131-2-3, 141-2-3, and 144-5. The same holds true for the two courses 341 and 336-7.

The Department of Physics recommends that those expecting to teach physics in high school should take at least 24 hours of college physics.

- 131-2-3. *General Physics for Liberal Arts Students.* 2 class hours, 3 laboratory hours. A survey of the entire field of general physics with the employment of only a minimum of mathematics. The class work consists chiefly of demonstration lectures and quizzes. The course is intended to be informative and cultural, and less technical than 141-2-3. Very simple physical laws will be applied to numerous practical appliances, especially those encountered in and about the home. Laboratory fee, \$4.00.

- 141-2-3. *General Physics*. 3 class hours, 3 laboratory hours. Required of all pre-medical students and recommended for students of liberal arts who desire a more thorough course than 131-2-3. This course is designed to meet the requirements of the Association of American Medical Colleges. Laboratory fee, \$4.00.
- 144-5. *Freshman Engineering Physics*. 3 class hours, 3 laboratory hours. Prerequisite: Mathematics 1310. 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. 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: General College Physics. 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: General College Physics. 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. Suggested for those who wish additional laboratory credit to apply on a pre-medical course. 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: General College Physics. 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.
330. *The Science of Musical Sounds*. Definition of sound. A study of wave motion. Noise and tone; resonance; pitch; intensity; overtones, wave form, and quality. Visual representation of sound waves. Tone qualities of different musical instruments. Physical characteristics of the vowels. Primarily for students of music. Fall term.

- 331-2. *Electrical Measurements*. 6 laboratory hours. Prerequisite: General College Physics and Mathematics 234-5-6. Fall and Winter terms. Fee, \$3.00.
- 336-7. *Advanced Light*. 6 laboratory hours. Prerequisite: General College Physics 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: General College Physics. Fall and Winter terms.
341. *Elementary Light*. 3 class hours, 3 laboratory hours. Prerequisite: General College Physics. Reflection, refraction, diffraction and polarization. Fall term. Fee, \$1.50.
342. *Practical Mechanics*. 3 class hours, 3 laboratory hours. Prerequisite: General College Physics. This is a more thorough course than that offered in general physics, which is a prerequisite. Fee, \$1.50.
344. *Heat*. 3 class hours, 3 laboratory hours. Prerequisite: General College Physics and Mathematics 234-5-6. Fall term. Fee, \$1.50.
- 441-2. *Thermionic Vacuum Tubes*. 3 class hours, 3 laboratory hours. Prerequisite: General College Physics and Mathematics 234-5-6. A preliminary study of the electron and certain electrical phenomena; the vacuum tube as a rectifier, an amplifier, an oscillation generator, a detector. Fee, \$3.00.
443. *Elementary Electron Theory*. 3 class hours. Prerequisite: General College Physics and Mathematics 234-5-6. A study of cathode rays, radioactivity, X-rays, photoelectric effect, ionization and radiation potentials, and the quantum theory. Spring term.
- 443-5-6. *Theoretical Mechanics*. 3 class hours. Prerequisite: Physics 342 or its equivalent and Mathematic 234-5-6. Not given in 1931-32.
- 531-2-3. *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, electro-dynamics, thermodynamics, and hydrodynamics.
- 534-5-6. *Mathematical Theory of Light*. 3 class hours. Prerequisite: Physics 336-7 or Physics 341 and Mathematics 234-5-6. Geometrical and physical optics.

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. Those 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.

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 engineering, pre-law, and business administration students. Does not satisfy the prerequisite for courses in Spanish literature. 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; not given in 1931-32).

434-5-6. *The Modern Drama*. Prerequisite. Spanish 331-2-3 or its equivalent. The drama from the Romantic Movement to the present. (Given in alternate years; given in 1931-32).

437. *Teachers' Course in Methods of Teaching Spanish*. 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. Summer term only.

**Leave of absence, 1931-32.

*Leave of absence, 1930-31.

4310-11-12. *Advanced Grammar, Composition, and Style*. Prerequisite: Spanish 331-2-3, or its equivalent. Recommended for those who intend to teach Spanish. Given in summer.

534-5-6. *The Drama of the Golden Age*. Prerequisite: Spanish 331-2-3 or its equivalent. The drama of the seventeenth century. Reading of representative plays; lectures, discussion, collateral reading, and reports. (Given in alternate years; given in 1931-32).

537-8-9. *A Survey of Spanish Literature*. 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. Instructors Mowery, Beville.

Requirements for B. A. Degree with a Major in Speech—

	Term Hours
Speech 131-2 (Fundamentals of Speech).....	6
Speech 1313 (Voice)	3
Speech 031-2 (Technique of Dramatic Art)	6
Speech 034 (Play Writing)	3
Speech 134-5-6 (Debate)	9
Speech 231-2 (Oratory)	6
Speech 233 (Technique of Reading)	3
Speech 234-5 (Stagecraft)	6
Speech 237 (Marionettes)	3
Speech 334-5-6 (Phonetics)	9
Speech 431 (Teachers Course)	3

General Requirements—

English	36
Psychology	6
History and Government	18
Education (To meet Certificate Requirements)	18
Science (Include Zoology 134-5-6)	18
Language	18
Mathematics	9
Two Years of Physical Education (no credit).	
Electives to complete	180

Students who bring sufficient entrance units to reduce the number of term-hours required in History, Government, Science and Mathematics, should consult the Head of the Department of Speech about these courses.

*Leave of absence, 1930-31.

- 031-2. *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.
034. *Play Writing*.
111. *Parliamentary Law*. Permission of instructor required. Winter term.
- 131-2. *Principles of Speech*. A course in general speech education, to give practical training in public speaking.
1313. *Voice*. A study of the structure and functioning of the vocal apparatus. Practical application of this study to the improvement of the individual voice. Required of all majors in speech.
1314. *Extemporaneous Speech*. A continuation of Speech 131-2. Speech 131-2 and 1314 is required in Business Administration.
- 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 1313. Theory and practice; expressive reading of different types of literature; emphasis on Shakespeare.
- 234-5. *Stagecraft and Direction*. 1 class hour, 2 laboratory hours. Prerequisite: Speech 031-2. 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.
237. *Marionette Construction and Rehearsal*. Prerequisite: Speech 031-2. Fee, \$4.00.
- 331-2. *History of Oratory*. Prerequisite: Speech 131-2, 231-2. Critical analysis of oratorical masterpieces. A study of representative British and American speakers. Oral and written reports required. Not offered in 1931-32.
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 difficul-

ties, 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 in 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—

	Term Hours
Expression 131-2-3, 231-2-3, 331-2-3.....	27
Speech 131—Principles of Speech.....	3
Speech 031-2—Technique of Dramatic Art.....	6
Speech 134-5—Argumentation and Debate.....	6
Speech 234-5—Stagecraft and Direction.....	6
Speech 334-5—Phonetics and Speech Correction.....	6

General Requirements—

English 131-2-3, 231-2-3, Elective 9 hours.....	27
Psychology 230, 232, Education 231.....	9
Psychology or Education	9
A foreign language	18
Science, Biology, 134-5-6—(The Human Body).....	9
Two years of Physical Education.	

Total126

- 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, 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 learning and of good 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 under "Entrance," 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.

Several regulations peculiar to this School are given here.

*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 who have failed to pass the required number of hours are re-admitted in the next following term on scholarship probation. Such students who fail to pass as many as 9 hours in the term that they are on scholarship probation 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 applies only to students entering College after 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	Subject	Term Hours	Subject	Term Hours
Eng. 131 Composition	3	Eng. 132 Composition	3	Eng. 133 Composition	3
*Chem. 141 Elementary	4	Chem. 142 Elementary	4	Chem. 143 Elementary	4
Math. 1310 Trigonometry	3	Math. 1312 Algebra	3	Math. 1313 Analytics	3
Math. 1311 Algebra	3	Phys. 144 Eng. Physics	4	Phys. 145 Eng. Physics	4
Eng. Draw 135 Eng. Drawing	3	E. Draw. 136 Eng. Drawing	3	E. Draw. 137 Eng. Drawing	3
P. T. 101 Phys. Training	—	P. T. 102 Physical Training	—	P. T. 103 Physical Training	—
	16		17		17

*Geological Engineering students will take Geology 131, 132, 133, 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.

ARCHITECTURAL ENGINEERING

Fall Term			Winter Term			Spring Term		
Freshman Year—See page 120.								
Subject	Term Hours		Subject	Term Hours		Subject	Term Hours	
*Eng. 2310 Lit. and Comp.	3		*Eng. 2311 Lit. and Comp.	3		*Eng. 2312 Tech. 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	
E. Draw. 231 Descriptive Geom.	3		Arch. 131 Shades & Shadows	3		Arch. 132 Perspective	3	
Arch. 121 Object Drawing	2		Arch. 132 Object Drawing	2		Arch. 123 Object Drawing	2	
Arch. 133 Elements of Arch.	3		Arch. 134 Elements of Arch.	3		Arch. 135 Elements of Arch.	3	
P. T. 201 Phys. Training	18		P. T. 202 Phys. Training	18		P. T. 203 Phys. Training	18	
Junior Year			Sophomore Year			Junior Year		
C. E. 331 Applied Mechanics	3		C. E. 332 Applied Mechanics	3		C. E. 333 Applied Mechanics	3	
C. E. 330 Surveying	3		C. E. 338 Structures	3		C. E. 339 Structures	3	
E. E. 334 Elements	3		E. E. 335 Elements	3		E. E. 336 Elements	3	
Arch. 234 Arch. Design	3		Arch. 235 Arch. Design	3		Arch. 246 Arch. Design	3	
Arch. 2210 Pencil Rendering	3		Arch. 224 Water Color	3		Arch. 229 History of Arch.	4	
Arch. 227 History of Arch.	2		Arch. 228 History of Arch.	2		Arch. 238 Working Dwg. and Specifications	2	
Arch. 236 Building Materials and Construction	3		Arch. 237 Working Draw. & Specifications	3		Arch. 238 Working Dwg. and Specifications	3	
Senior Year			Senior Year			Senior Year		
C. E. 431 Concrete	3		C. E. 432 Concrete	3		C. E. 433 Concrete	3	
C. E. 442 Structures	4		C. E. 434 Structures	3		C. E. 436 Heating and Principles	3	
C. E. 331 M. E. Equipment	3		C. E. 435 Heating and Ventilation	3		Econ. 233 Estimating	1	
Arch. 321 History of Arch.	2		Econ. 232 Principles	3		Arch. 414 Bldg. Sanitation	2	
Econ. 231 Principles	3		Arch. 411 Business Practice	1		Arch. 326 Business Practice	1	
One or more ap- proved Electives	2 to 4		Arch. 322 History of Arch.	2		Arch. 412 History of Arch.	2	
			One or More ap- proved Electives	2 to 4		Arch. 323 One or more ap- proved Electives	2 to 4	

CIVIL ENGINEERING

Fall Term			Winter Term			Spring Term		
Subject	Term Hours		Subject	Term Hours		Subject	Term Hours	
2321 Analytical Geom.	3		2322 Calculus	3		2323 Calculus	3	
*Eng. 2310 Lit. and Comp.	3		2311 Lit. and Comp.	3		2312 Tech. Writing	3	
C. E. 241 Plane Surveying	4		242 Plane Surveying	4		243 Plane Surveying	4	
Phys. 241 Soph. Eng. Phys.	4		242 Soph. Eng. Phys.	4		243 Soph. Eng. Phys.	4	
Geol. 332 Engineering Geol.	3		333 Engineering Geol.	3		231 Descriptive Geom.	3	
P. T. 201 Phys. Training	17		202 Phys. Training	17		203 Phys. Training	17	
Junior Year			Junior Year			Junior Year		
C. E. 331 Applied Mechanics	3		332 Applied Mechanics	3		333 Applied Mechanics	3	
Math. 3311 Advanced Calculus	3		332 Advanced Calculus	3		3313 Diff. Equation	3	
N. E. 331 Heat Engineering	3		333 Heat Engineering	3		339 Heat Engineering	3	
C. E. 335 Highway Eng.	3		336 Highway Eng.	3		337 Highway-Eng.	3	
C. E. 334 Surveying	3		338 Structures	3		339 Structures	3	
Bact. 331 Gen. Bact.	3		315 Graphics	1		316 Graphics	1	
	18		314 Highway Lab.	1		313 Concrete Lab.	1	
				17		312 Materials Lab.	1	
							18	
Senior Year			Senior Year			Senior Year		
C. E. 431 Concrete	3		432 Concrete	3		433 Concrete	3	
C. E. 442 Structures	4		434 Structures	3		430 Materials	3	
C. E. 437 Elements	3		412 Hydraulic Lab.	1		330 Bus. Law	3	
C. E. 439 Hydraulics	3		338 Elements	3		233 Principles	3	
Econ. 231 Principles	3		326 Laboratory	2		"A"	3	
**Elec. "A"	3		232 Principles	3		131 Principles	3	
	19		**Elec. "A"	3			18	

*Or English 231-2-3.

†C. E. 420 Highway Lab. may be taken instead of C. E. 434.

**See page 142 for statement of elective requirements.

ELECTRICAL ENGINEERING

Fall Term			Winter Term			Spring Term		
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. 231 Soph. Eng. Phys.	4		Phys. 2312 Soph. Eng. Phys.	3		Phys. 233 Soph. Eng. Phys.	3	
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	
C. E. Draw. 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 Phys. Training	1		P. T. 202 Phys. Training	1		P. T. 203 Phys. Training	3	
	17			17			18	
Freshman Year—See page 129.			Sophomore Year			Junior Year		
			*Eng. 2311 Lit. and Comp.	3		E. E. 332 Principles	3	
			Phys. 2312 Soph. Eng. Phys.	3		E. E. 322 Laboratory	2	
			Math. 2322 Calculus	3		C. E. 332 Applied Mechanics	3	
			E. Dwg. 232 Machine Dwg.	3		M. E. 335 Heat Engineering	3	
			M. E. 212 Pattern Shop	1		Math. 3312 Adv. Calculus	3	
			P. T. 202 Phys. Training	1		M. E. 328 Laboratory	2	
				17		M. E. 312 Machine Shop	1	
				17			17	
			Senior Year			Senior Year		
			E. E. 432 A. C. Machines	3		E. E. 432 A. C. Machines	3	
			E. E. 422 A. C. Laboratory	2		E. E. 422 A. C. Laboratory	2	
			E. E. 435 Applications	3		E. E. 435 Applications	3	
			Econ. 232 Principles	3		Econ. 232 Principles	3	
			Phys. 332 Elec. Measurement's	3		Phys. 332 Elec. Measurement's	3	
			E. E. 410 Seminar	1		E. E. 410 Seminar	1	
			Elective	3		Elective	3	
				18			18	

*Or English 231-232 and 233.

MECHANICAL ENGINEERING

Fall Term			Winter Term			Spring Term		
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 Analytic Geom.	3		Math. 2322 Calculus	3		Math. 2323 Calculus	3	
Speech 181 Principles	3		M. E. 221 Problems	2		M. E. 222 Mechanism	2	
E. Dwg. 231 Descrip. Geom.	3		E. Dwg. 232 Machine Drawing	3		C. E. 227 Surveying	3	
M. E. 225 Pattern Shop	2		M. E. 226 Fdv. and Forge	2		M. E. 227 Machine Shop	2	
P. T. 201 Phys. Training	—	18	P. T. 202 Phys. Training	—	17	P. T. 203 Phys. Training	—	17
			Sophomore Year					
			Freshman Year—See page 120.					
			Junior Year					
M. E. 332 Thermodynamics	3		M. E. 333 Thermodynamics	3		M. E. 3317 Heat and Vent.	3	
M. E. 321 Mech. Measurements	2		C. E. 412 Hydraulic Lab.	1		M. E. 337 Mach. Design	3	
M. E. 315 Machine Shop	1		M. E. 316 Shop Projects	1		M. E. 322 Thermo. Lab.	2	
C. E. 331 Applied Mechanics	3		C. E. 332 Applied Mechanics	3		M. E. 317 Shop Projects	1	
C. E. 439 Hydraulics	3		M. E. 434 Industrial Engr.	3		C. E. 333 Applied Mechanics	3	
Math. 3311 Adv. Calculus	3		Math. 3312 Adv. Calculus	3		M. E. 439 Metallurgy	3	
M. E. 431 Power Plants	3		C. E. 312 Materials Lab.	1		M. E. 330 Business Law	3	
	—	18	M. E. 432 Power Plants	3			—	18
			Senior Year					
Econ. 231 Introduction	3		Econ. 232 Introduction	3		Econ. 233 Introduction	3	
M. E. 421 Power Plant Lab.	2		M. E. 422 Power Plant Lab.	2		M. E. 423 Power Plant Lab.	2	
M. E. 4321 Design	3		M. E. 4322 Design	3		M. E. 4323 Design	3	
E. E. 334 Elements	3		E. E. 335 Elements	3		E. E. 336 Elements	3	
M. E. 427 Dynamics	2		E. E. 311 Laboratory	1		E. E. 312 Laboratory	1	
Elective	6		M. E. 411 Seminar	1		M. E. 412 Seminar	1	
	—	10	Elective	6		Elective	3	
				—	19			13

*See Page 140 for statement of elective requirements.

*Dr English 231, 232 and 233.

MECHANICAL ENGINEERING
(Chemical Engineering Option)

Spring Term			Fall Term			Winter Term		
Subject	Term Hours		Subject	Term Hours		Subject	Term Hours	
*Eng. 2310	3	Lit. and Comp.	*Eng. 2311	3	Lit. and Comp.	*Eng. 2312	3	Technical Writing
Phys. 241	4	Soph. Eng. Phys.	Phys. 242	4	Soph. Eng. Phys.	Phys. 243	4	Soph. Eng. Phys.
Math. 2321	3	Analytic Geom.	Math. 2322	3	Calculus	Math. 2323	3	Calculus
Chem. 234	3	Adv. Inorganic	Chem. 238	3	Analytical Chem.	Chem. 239	3	Analytical Chem.
Chem. 237	3	Analytical Chem.	Chem. 235	3	Adv. Inorganic	Chem. 236	3	Adv. Inorganic
P. T. 201	3	Phys. Training	Speech 131	3	Principles	P. T. 203	3	Phys. Training
	13		P. T. 202	3	Phys. Training		16	
Freshman Year—See page 129.			Sophomore Year					
Chem. 343	4	Organic Chemistry	Chem. 344	4	Organic Chemistry	Chem. 345	4	Organic Chemistry
Chem. 441	4	Physical Chem.	Chem. 442	4	Physical Chem.	Chem. 443	4	Physical Chem.
C. E. 331	3	Applied Mechanics	C. E. 332	3	Applied Mechanics	C. E. 333	3	Applied Mechanics
Econ. 231	3	or For. Language	Econ. 232	3	or For. Language	Econ. 233	3	or For. Language
Math. 3311	3	Advanced Calculus	Math. 3312	3	Advanced Calculus	Gov. 330	3	Commercial Law
Chem. 310	1	Chem. Eng. Calc.	Chem. 311	1	Chem. Eng. Calc.	N. E. 439	3	Metalurgy
	18			18			20	
Junior Year			Senior Year					
E. E. 334	3	Elements	E. E. 335	3	Elements	E. E. 336	3	Elements
Chem. 312	1	Laboratory	Chem. 311	1	Laboratory	Chem. 312	1	Laboratory
Chem. 321	2	Adv. Ind.	Chem. 313	1	Adv. Ind.	Chem. 314	1	Adv. Ind.
Chem. 434	3	Prin. of Chem. Eng.	Chem. 322	2	Industrial Chem.	Chem. 323	2	Industrial Chem.
E. Dwg. 232	3	Machine Drawing	Chem. 435	3	Prin. of Chem. Eng.	Chem. 436	3	Prin. of Chem. Eng.
M. E. 334	3	Heat Engin.	M. E. 435	2	Heat Engr. Lab.	M. E. 329	2	Heat Engr. Lab.
Electives	3		E. Ddw. 421	2	Chem. Plant Des.	E. Dwg. 422	2	Chem. Plant Des.
	18		M. E. 335	3	Heat Engin.	M. E. 336	3	Heat Engin.
			Elective	3			17	

*Or English E231, E232 and E233.

TEXTILE ENGINEERING

Fall Term			Winter Term			Spring Term		
Subject	Term Hours		Subject	Term Hours		Subject	Term Hours	
C. E.	230	Surveying	*Eng.	2311	Lit. and Comp.	*Eng.	2312	Technical Writing
*Eng.	2310	Lit. and Comp.	Math.	2322	Calculus	Speech	131	Principles
Math.	2321	Analytic Geom.	M. E.	221	Problems	Math.	2323	Calculus
Phys.	241	Soph. Eng. Phys.	Phys.	242	Soph. Eng. Phys.	M. E.	220	Mach. Shop
T. E.	227	Yarn Mfg.	E. Dwg.	232	Machine Drawing	Phys.	243	Soph. Eng. Phys.
P. T.	201	Phys. Training	T. E.	223	Yarn Mfg.	T. E.	229	Fabric Design and Mfg.
			P. T.	202	Phys. Training	P. T.	203	Phys. Training
		15			17			18
			Sophomore Year					
			Subject	Term Hours		Subject	Term Hours	
C. E.	331	Applied Mechanics	*Eng.	332	Applied Mechanics	*Eng.	333	Applied Mechanics
Chem.	343	Organic Chemistry	Chem.	344	Organic Chemistry	Chem.	345	Organic Chemistry
E. E.	334	Elem. of Elec. Eng.	E. E.	324	Elec. Engr. Lab.	E. E.	325	Elec. Engr. Lab.
T. E.	331	Yarn Manufacture	E. E.	335	Elem. of Elec. Eng.	E. E.	336	Elem. of Elec. Eng.
T. E.	324	Fabric Design and Mfg.	T. E.	332	Yarn Manufacture	T. E.	333	Yarn Manufacture
T. E.	327	Dyeing & Finishing	T. E.	325	Fabric Des. & Mfg.	T. E.	326	Fabric Design and Mfg.
		2	T. E.	323	Dyeing & Finishing	T. E.	329	Dyeing & Finishing
		17			19			19
			Junior Year					
C. E.	431	Applied Mechanics	C. E.	432	Applied Mechanics	Econ.	233	Economics
Chem.	427	Organic Chemistry	Chem.	434	Organic Chemistry	Gov.	330	Commercial Law
E. E.	434	Elem. of Elec. Eng.	E. E.	435	Elem. of Elec. Eng.	M. E.	319	Mech. Engr. Lab.
T. E.	431	Yarn Manufacture	E. E.	434	Industrial Engr.	M. E.	336	Heat Engineering
T. E.	444	Yarn Manufacture	T. E.	435	Dyeing and iFni	T. E.	436	Dyeing and Finish
T. E.	437	Fabric Design and Mfg.	T. E.	445	Yarn Manufacture	T. E.	446	Yarn Manufacture
		3	T. E.	438	Fabric Design and Mfg.	T. E.	439	Fabric Design and Mfg.
		18			20			20
			Senior Year					
Econ.	231	Economics	Econ.	232	Economics	Econ.	233	Economics
M. E.	427	Dynamics	M. E.	318	Mech. Engr. Lab.	Gov.	330	Commercial Law
M. E.	431	Mech. Eng. Equip.	M. E.	335	Heat Engineering	M. E.	319	Mech. Engr. Lab.
T. E.	434	Dyeing & Finishing	M. E.	434	Industrial Engr.	M. E.	336	Heat Engineering
T. E.	444	Yarn Manufacture	T. E.	435	Dyeing and iFni	T. E.	436	Dyeing and Finish
T. E.	437	Fabric Design and Mfg.	T. E.	445	Yarn Manufacture	T. E.	446	Yarn Manufacture
		3	T. E.	438	Fabric Design and Mfg.	T. E.	439	Fabric Design and Mfg.
		18			20			20

*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.

130. *Architectural Graphics*. 9 laboratory hours. Exercises in architectural drawing, lettering, the use of instruments, wash drawings, etc. For students not majoring in Architectural Engineering. Fee, \$1.50.

131-2. *Shades and Shadows. Perspective*. 9 laboratory hours. Prerequisite: Engineering Drawing 231 or Architecture 130. Exer-

cises in conventional shades and shadows of common geometrical solids, solids of revolution, and simple architectural members. The theory of perspective as applied to common geometrical solids, and to problems from architectural practice. Fee, \$3.00.

133-4-5. *Elements of Architecture*. 9 laborative hours. (Formerly Architecture 231-2-3.) Architectural drawing, lettering, and wash rendering in Indian 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 laborative 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 by drawing from the living model.

The course in Painting in water color from still life and from natural 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.

2210-11-12. *Pencil Rendering and Sketching*. 6 laboratory hours. (2210 was formerly 220). Prerequisite: Architecture 121-2-3. The drawing of architectural ornaments, architectural fragments, and pencil sketches from nature. Fee, \$4.00.

224-5. *Water Color*. 6 laboratory hours. Prerequisite: Architecture 2210 or approval of instructor. Exercises in the handling of the medium and of the translation of color; theory of color. Fee, \$3.00.

2213-14-15. *Pen and Ink Rendering*. 6 laboratory hours. (2213 formerly 226). Prerequisite: Architecture 224-5. Students not registered in architecture should have the 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 the 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 time 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 Arts*. 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, French, Spanish, English, and German Renaissance, and that of modern times. Fee, \$4.00.

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 the 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 the earliest times to the 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 of the properties and uses of the materials of construction; plumbing, heating, and lighting system; occasional visits to buildings under construction.

237-8. *Working Drawings and Specification*. 9 laboratory hours. (Formerly Architecture 221-2-3.) Prerequisite: Architecture 236. Preparation of working drawings and specifications for suburban houses; drawing complete details for buildings, heating, plumbing and structural problems. Fee, \$3.00.

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.

Elective "A." Seniors may choose one of the following courses to fulfill the requirements of the senior year curriculum: C. E. 4314-15-16, or C. E. 4311-12-13, or one year of foreign language.

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. *Material 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. The physical properties of cement, mortar, and concrete. Fee, \$1.50; deposit, \$2.00.
314. *Highway Laboratory*. 3 laboratory hours. 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. *Applied Mechanics. Statics*. 3 class hours. Prerequisite: Physics 144-5. Registration in Mathematics 2323. Coplanar and non-coplanar force systems; equilibrium of force systems; simple friction; centroids and moments of inertia.
332. *Applied Mechanics. Kinematics and Kinetics*. 3 class hours. Prerequisite: Civil Engineering 331. A study of the motion of a particle and of rigid bodies; a study of the kinetics of translation, rotation and of plane motion; definitions of work, power, energy.
333. *Applied Mechanics. Strength of Materials*. 3 class hours. Prerequisite: Civil Engineering 331. The stresses and strains in elastic bodies subject to tension, compression, shear, bending and torsion; deflection in homogeneous beams; resilience.
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. The fundamentals of highway location, design, construction, maintenance, finance and transport.
- 338-9. *Structures*. 3 class hours. 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.

421. *Concrete Design*. Prerequisite: Civil Engineering 431-2. Drawing practice in application of principles elucidated in Civil Engineering 431-2.
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. 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. The principles of hydraulics and hydrodynamics as applied to engineering problems.
- 431-12-13. *Highway Engineering*. Prerequisite: Civil Engineering 335-6-7. Highway administration, finance, design, estimate and specifications.
- 431-15-16. *Municipal and Sanitary Engineering*. 3 class hours. Prerequisite: Bacteriology 331, Chemistry 143, registration in Civil Engineering 439. Various problems connected with sewerage and sewage disposal; the securing of adequate water supplies and the purification of water.

DEPARTMENT OF ELECTRICAL ENGINEERING

Professor Miller. Associate Professor Grandy. 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 242; Mathematics 2312. A course of recitations and problems on the fundamental principles of the electric, magnetic and dielectric circuits.
- 311-2. *Electrical Engineering Laboratory*. 3 class 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*. 6 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 2313. 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: Senior standing. 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 transmission and utilization of electrical energy.
437. *Principles of Electrical Communication*. 3 class hours. Prerequisite: Senior standing. A brief course dealing with the principal systems 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 Street, Perryman. Assistants White, Brummett.

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 class and laboratory. Drawing equipment required. Cost about \$7.50. A study of orthographic projection, lettering, graphic charts, freehand sketching, agricultural machinery, farm layouts, farm structures, and the reading of drawings related to agriculture and agricultural engineering. Designed especially for students of agriculture. Fall term.
133. *Home Economics Drawing*. 1 class hour, 6 laboratory hours. Drawing equipment required. Cost about \$7.50. The use of the instruments, geometry in design, orthographic projections, lettering,

mechanical pictorial methods, perspective, the meaning of "scale," building features, floor plans, room layouts, etc. A fundamental course planned especially for Home Economics students. Winter 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 \$25.00. 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 \$25.00. The essentials of drafting, including the use of instruments, lettering, orthographic projections, sections, intersections, developments, isometric and oblique drawing, and elementary working drawing. Fee, 50 cents for each term.
211. *Technical Spetching and Lettering*. 3 class and laboratory hours. Prerequisite: Engineering Drawing 135 or equivalent. An intensive course in othographic and pictorial sketching and engineering lettering.
231. *Descriptive Geometry*. 3 two-hour class and laboratory periods. Prerequisite: 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 class hour, 6 laboratory hours. Prerequisite: Engineering Drawing 137, or its equivalent. 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.
- 331-2. *Mechanical Drawing for Teachers*. 1 class 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. Fee, \$1.00 each term.
333. *Lettering*. 6 hours class and laboratory. (Replaces Engineering Drawing 321). A course in the art of lettering, including the history and development of the alphabet, the technique of lettering, and applications of lettering in design. Fee, \$1.00.

- 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.

- 131-2-3. *General Geology*. 3 class hours, 3 laboratory hours. The first fundamental course in geology covering the general principles of the science. Fee, \$4.00.
- 231-2-3. *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, \$4.00.
294. *Field Geology*. Six weeks in the field. Prerequisite: Geology 131-2-3. An intensive course in the methods of geologic investigations given in camp in the field.
- 311-2-3. *Geology of Texas*. 1 class hour. Prerequisite: Geology 131. 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 131-2-3. A study of the principal "index fossils" of North America and the application of the principles of paleontology to stratigraphy. Fee, \$4.00.
- 417-8-9. *Mesozoic and Cenozoic Index Fossils*. 3 laboratory hours. (Geology 417-8-9 and 427-8-9 replace Geology 437-8-9). Study of important index fossils. (Must accompany 427-8-9). Fee, \$1.50.

- 421-2-3. *Structural Geology*. 2 class hours. (Geology 421-2-3 and 425-6-7 replace Geology 434 and 435-6). Prerequisite: Geology 131-2-3, 337-8-9, 334-5-6. Deformation and structures of rock strata.
- 424-5-6. *Geology of Petroleum*. 1 class hour, 3 laboratory hours. (Geology 421-2-3 and 424-5-6 replace Geology 434 and 435-6). Prerequisite: Preceded or accompanied by Geology 421-2-3. Devoted to special problems of the Petroleum Industry. Fee, \$4.00.
- 427-8-9. *Micropaleontology*. 1 class hour, 3 laboratory hours. (Geology 417-8-9 and 427-8-9 replace Geology 437-8-9). Study of micro fossils of oil bearing strata. (To be accompanied by 417-8-9).
- 431-2-3. *Advanced General Geology*. 2 class hours, 3 laboratory hours. Prerequisite: Geology 131-2-3, 231-2-3, 337-8-9. A course in general advanced geology. Fee, \$4.00.

DEPARTMENT OF MECHANICAL ENGINEERING

Professor Godeke. Assistant Professor *Farris. Assistant Professor Doughtie. Instructors Hargrave and Hall.

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 mechanical 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 6 hours of the senior electives must be chosen from the following: M. E. 4311-12-13, M. E. 4314-15-16, M. E. 4317-18, M. E. 413-14, M. E. 323-4-5, Chem. 339.

*Leave of absence, 1930-31.

CHEMICAL ENGINEERING OPTION

Students desiring to study chemical engineering will register in the Department of Mechanical Engineering.

- 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 or 137. 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.
- 316-7. *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 431. 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 333. 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. Types of steam engines and turbines, condensers and pumps, boilers and their auxiliaries, internal combustion engines, air compressors and refrigerating machines. For civil and architectural engineers.

- 332-3. *Thermodynamics*. Prerequisite: Physics 145. 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.
- 334-5-6. *Heat Engineering*. Prerequisite: Physics 145. A general study of heat power machines. Types of steam engines, turbines, condensers, pumps, boilers and their auxiliaries, internal combustion engines, air compressors and refrigerating machines. A study of the thermodynamic principles as applied to these machines. Combustion of fuels. Selection of equipment for higher commercial economy. For electrical, textile and chemical engineers.
337. *Elementary Machine Design*. 2 class hours, 3 laboratory hours. Prerequisites: Mechanical Engineering 222 and Civil Engineering 331. A study of the fundamental elements entering into machines, with a view of analyzing the forces and stresses involved and proportioning parts to withstand these forces.
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.
3317. *Heating and Ventilation*. 3 class hours. Prerequisite: Mechanical Engineering 333 or 336. A study of different systems for heating and ventilating offices, hotel buildings and industrial plants. Air conditioning equipment.
- 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 topic 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: Mechanical Engineering 322. Tests of steam power plant units: Boilers, engines, turbines, fans, compressors, pumps. Tests

of internal combustion engines using gas, gasoline, kerosene, 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. The principles of kinematics and kinetics.
- 431-2. *Heat-Power Engineering*. Prerequisite: Registration in Mechanical Engineering 332-3. 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. For students who do not take thermodynamics. 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. Material 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. *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.

- 4321-22-23. *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 Goodwin.

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 opportunities to the students who intend entering the textile industry. With its modern equipment and well arranged classrooms and laboratories, ample opportunities 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, and Industrial Engineering.

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 alkalis and acids on the various textile fabrics 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 yard 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 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 system 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 warps 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; marquisettes; 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.) Prerequisite: 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 courses 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 agricultural 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 livestock 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

To enable students 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

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.

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," in another part of this catalogue.

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:

	Units
1. English	3
2. Mathematics:	
Algebra	1
Plane Geometry	1

And ten units selected from the following:

3. Social Science, 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
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
5. Any other standard units, but not more than four can be vocational subjects	7
Total	15

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 Manufac-

tures. 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 now entering State supported educational institutions must pass a course in State and Federal Constitutions before they can receive a degree. This act went into effect September 1, 1930. An appropriate course in this subject therefore must be passed by students 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	Wint'r	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
P. T. or M. T. Physical Ed. or Military Science	--	--	--
	15 1-3	16 1-3	17 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, Agricultural Economics 121, Agronomy 131 will be assigned interchangeably.

	Term Hours		
	Fall	Wint'r	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 Livestock	--	--	3
D. M. 236—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 Ed. or Military Science	--	--	--
	16	16	16

Junior and Senior Year

See the immediately following pages.

AGRICULTURAL ECONOMICS AND FARM MANAGEMENT MAJOR

For Freshman and Sophomore Years see page 161.

	Term Hours		
	Fall	Wint'r	Spring
Junior Year			
Ag. Eco. 334—Agricultural Statistics-----	3	—	—
Gen. 331-2—Principles of Genetics-----	—	3	3
Agron. 331—Forage Crops-----	3	—	—
Ag. Eco. 333—Cooperative Marketing-----	3	—	—
Ag. Eco. 338—Advanced Statistics-----	—	3	—
Chem. 331-2—Organic Chemistry-----	3	3	—
A. H. 341—Animal Nutrition and Principles of Feeding-----	—	—	4
*Ag. Electives—Advanced Agricultural courses-----	—	3	6
Supervised Electives—(See note below)-----	3	3	3
	15	15	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
Gen. Ag. 411—General Agriculture Lectures-----	1	—	—
Electives—Electives in Ag. Eco. or in the Dept. of Eco. and Bus. Ad.-----	3	3	3
*Ag. Electives—Advanced Agricultural courses-----	6	6	6
Supervised Electives—(See note below)-----	3	3	3
	17	16	16

Electives

Prior to the beginning of the junior year the student shall consult with the head of the department and designate definitely the electives to be followed during the junior year. A statement of these electives shall be filed with the dean. Certain definite sequences of electives will be required.

During the spring term of the junior year the student shall consult with the head of the department and definitely designate the advanced courses and electives to be taken during his senior year. A statement of these electives shall be filed with the dean. Govt. 230 is required of all students entering college after September 1, 1930, and must be elected.

*These shall include 3 hours in Horticulture, 3 hours in Dairy Manufactures, and 4 hours in advanced Agricultural Economics in the junior or in the senior year.

AGRONOMY MAJOR

For Freshman and Sophomore Years see page 161.

	Term Hours		
	Fall	Wint'r	Spring
Junior Year			
Agron. 331—Forage Crops	3	—	—
Agron. 323—Cotton Classing and Grading	—	2	—
Speech 131—Principles of Speech	—	—	3
Agron. 333—Cotton and Other Fiber Crops	3	—	—
Agron. 431—Grain Crops	—	3	—
Gen. Ag. 339—Plant Diseases and Insects and Their Control	—	—	3
Ag. Eco. 334—Agricultural Statistics	3	—	—
Gen. 331-2—Principles of Genetics	—	3	3
Chem. 331-2—Organic Chemistry	3	3	—
A. H. 341—Animal Nutrition and Principles of Feeding	—	—	4
*Ag. Elective—Advanced Agricultural course	—	3	—
Supervised Electives—(See note below)	3	3	3
	15	17	16
Senior Year			
Agron. 411-2—Agronomy Seminar	—	1	1
Agron. Electives—Advanced Agronomy courses	9	6	9
Gen. Ag. 411—General Agriculture Lectures	1	—	—
Ag. Eco. 432—Farm Management	—	3	—
*Ag. Electives—Advanced Agricultural courses	3	3	3
Supervised Electives—(See note below)	3	3	3
	16	16	16

Electives

Prior to the beginning of the junior year the student shall consult with the head of the department and designate definitely the electives to be followed during the junior year. A statement of these electives shall be filed with the dean. Certain definite sequences of electives will be required.

During the spring term of the junior year the student shall consult with the head of the department and definitely designate the advanced courses and electives to be taken during his senior year. A statement of these electives shall be filed with the dean. Govt. 230 is required of all students entering college after September 1, 1930, and must be elected.

*These shall include at least 3 hours in Horticulture and 3 hours in Agricultural Economics in the junior or in the senior years.

ANIMAL HUSBANDRY MAJOR

For Freshman and Sophomore Years see page 161.

	Term Hours		
	Fall	Wint'r	Spring
Junior Year			
Vet. 331—Anatomy of Domestic Animals.....	3	—	—
Vet. 332—Comparative Physiology.....	—	3	—
Vet. 333—Livestock Diseases, Parasites, and Sanitation.....	—	—	3
Chem. 331-2—Organic Chemistry.....	3	3	—
A. H. 341—Animal Nutrition and Principles of Feeding.....	—	—	4
Ag. Eco. 334—Agricultural Statistics.....	3	—	—
Gen. 331-2—Principles of Genetics.....	—	3	3
Agron. 331—Forage Crops.....	3	—	—
A. H. 331—Advanced Livestock Judging.....	—	3	—
Speech 131—Principles of Speech.....	—	—	3
Supervised Electives—(See note below).....	3	3	3
	15	15	16
Senior Year			
A. H. —Advanced Animal Husbandry courses.....	9	6	6
A. H. 411-2—Animal Husbandry Seminar.....	—	1	1
Gen. Ag. 411—General Agriculture Lectures.....	1	—	—
Ag. Eco. 432—Farm Management.....	—	3	—
Agron. 437—Pasture Management.....	—	—	3
*Ag. Electives—Advanced Agricultural courses.....	3	3	3
Supervised Electives—(See note below).....	3	3	3
	16	16	16

Electives

Prior to the beginning of the junior year the student shall consult with the head of the department and designate definitely the electives to be followed during the junior year. A statement of these electives shall be filed with the dean. Certain definite sequences of electives will be required.

During the spring term of the junior year the student shall consult with the head of the department and definitely designate the advanced courses and electives to be taken during his senior year. A statement of these electives shall be filed with the dean. Govt. 230 is required of all students entering college after September 1, 1930, and must be elected.

*Three hours of this work shall be in Agricultural Economics.

DAIRY MANUFACTURES MAJOR

For Freshman and Sophomore Years see page 161.

	Term Hours		
	Fall	Wint'r	Spring
Junior Year			
D. M. 337—Dairy Machinery.....	3	—	3
D. M. 331-2—Market Milk.....	3	3	—
Speech 131—Principles of Speech.....	—	3	—
D. M. 336—Dairy Bacteriology.....	—	3	—
D. M. 321—Judging Dairy Products.....	—	—	2
Chem. 331-2—Organic Chemistry.....	3	3	—
A. H. 341—Animal Nutrition and Principles of Feeding.....	—	—	4
Ag. Eco. 334—Agricultural Statistics.....	3	—	—
Gen. 331-2—Principles of Genetics.....	—	3	3
Supervised Electives—(See note below).....	3	3	3
	15	15	15
Senior Year			
D. M. 411—Dairy Manufactures Seminar.....	—	—	1
D. M. 333—Cheese Making.....	3	—	—
D. M. 435—Dairy Inspection.....	—	3	—
D. M. 440—Dairy Technology.....	—	—	4
D. M. —Dairy Products Merchandizing.....	3	—	—
D. M. 436-7—Ice Cream Making.....	—	3	3
D. M. 433-4—Butter Making.....	3	3	—
D. M. 443—Management of Dairy Manufacturing Plants.....	—	—	4
Gen. Ag. 411—General Agriculture Lectures.....	1	—	—
Ag. Eco. 432—Farm Management.....	—	3	—
Ag. Elective—Advanced Agricultural courses.....	3	—	—
Supervised Electives—(See note below).....	3	3	3
	16	15	15

Electives

Prior to the beginning of the junior year the student shall consult with the head of the department and designate definitely the electives to be followed during the junior year. A statement of these electives shall be filed with the dean. Certain definite sequences of electives will be required.

During the spring term of the junior year the student shall consult with the head of the department and definitely designate the advanced courses and electives to be taken during his senior year. A statement of these electives shall be filed with the dean. Govt. 230 is required of all students entering college after September 1, 1930, and must be elected.

Students interested in specific branches of the dairy industry will elect specific courses to meet the need of that field.

HORTICULTURE MAJOR

For Freshman and Sophomore Years see page 161.

	Term Hours		
	Fall	Wint'r	Spring
Junior Year			
Hort. 341—Orcharding	4	--	--
Hort. 238—Principles of Floriculture	--	3	--
Hort. 332—Pruning and Spraying	--	--	3
Ag. Eco. 334—Agricultural Statistics	3	--	--
Gen. 331-2—Principles of Genetics	--	3	3
Chem. 331-2—Organic Chemistry	3	3	--
A. H. 341—Animal Nutrition and Principles of Feeding	--	--	4
Agron. 331—Forage Crops	3	--	--
Speech 131—Principles of Speech	--	3	--
Gen. Ag. 339—Plant Diseases and Insects and Their Control	--	--	3
Supervised Electives—(See note below)	3	3	3
	16	15	16
Senior Year			
Hort.—Advanced Horticulture courses	9	7	9
Hort. 411-2—Horticulture Seminar	--	1	1
Ag. Eco. 432—Farm Management	--	3	--
Gen. Ag. 411—General Agriculture Lectures	1	--	--
*Ag. Electives—Advanced Agricultural courses	3	3	3
Supervised Electives—(See note below)	3	3	3
	16	17	16

Electives

Prior to the beginning of the junior year the student shall consult with the head of the department and designate definitely the electives to be followed during the junior year. A statement of these electives shall be filed with the dean. Certain definite sequences of electives will be required.

During the spring term of the junior year the student shall consult with the head of the department and definitely designate the advanced courses and electives to be taken during his senior year. A statement of these electives shall be filed with the dean. Govt. 230 is required of all students entering college after September 1, 1930, and must be elected.

*Three hours of this work shall be in Agricultural Economics.

DEPARTMENT OF AGRICULTURAL ECONOMICS AND FARM MANAGEMENT

Professor Ellsworth.

The objective in the Department of Agricultural Economics and Farm Management is to provide instruction relative to the business aspects of farming including the quantity and quality of agricultural products demanded by the consumer together with the time and the place of such demand in relation to the practical and profitable operation of farms and of the agricultural industry as a whole.

Courses are also provided for students who wish preparation for research positions, and commercial and industrial activities closely allied with Agriculture.

Students in the junior and senior years, after completing the standard first and second years in Agriculture, are given much latitude in electives.

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 agriculture. 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. *Cooperative Marketing*. 2 class hours, 3 laboratory hours. Prerequisite: Agricultural Economics 332. Development, importance, and fundamental principles underlying cooperative marketing organizations in the United States, and their application to local conditions. Pooling systems, membership contracts, and national and state laws affecting cooperative 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.
337. *Marketing Agricultural Products*. 2 class hours, 3 laboratory hours. Prerequisite: Agricultural Economics 332. Problems and practices involved in the marketing of specific commodities as 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. May be taken as independent thirds. Fee, \$1.50 each term.
391. *Field Problems in Agricultural Economics*. Prerequisite: Agricultural Economics 332; junior standing; permission of the instructor. A field trip of six weeks during the summer of from four to five thousand miles, studying improved practices and visiting points of interest in the leading agricultural states. A detailed itinerary will include stops in each state where studies will be made with the assistance of the authorities of the respective state agricultural college and of the United States Department of Agriculture. The trip will be made during the summer of 1932 provided sufficient demand exists. Expenses: About \$175.00 (including registration, transportation, meals, and lodging.)
- 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. Fee, \$1.50.
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.
438. *Agricultural Economics Problems*. Prerequisite: Senior standing in Agricultural Economics. Individual research following a definite plan approved by the department.

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, pasture management, soils, 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 can be grown 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. Fee, \$1.50.
235. *Soils*. 3 class hours. Prerequisite: Registration in Chemistry; 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. 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.
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.
333. *Cotton and Other Fiber Crops*. 2 class hours, 3 laboratory hours. Prerequisite: Agronomy 131, Botany 131-2-3. 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. *Agronomy 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 331. 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 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. Not offered 1931-32. Fee, \$1.50.
434. *Irrigation and Drainage*. 3 class hours. Field trips. Prerequisite: Agronomy 235, 1 year of Chemistry, 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: Agronomy 235, and senior standing in Agriculture. 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*. Prerequisite: 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.

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 and 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 department owns three breeds each of beef cattle, dairy cattle, hogs, and sheep, three varieties of poultry, and Percheron horses, all of which are maintained primarily for class instruction.

The equipment of the department includes a livestock judging pavilion, a dairy barn, two horse barns, a central house for hogs, and a silo. There are also large pastures, forty acres in sheep pastures, twenty acres in hog pastures, and a ten-acre poultry farm, all fenced and cross fenced and provided with housing facilities.

Laboratory equipment for instruction in veterinary science, poultry brooding and incubation, livestock feeding and production is also available.

ANIMAL HUSBANDRY

134. *Types, Market Classes, and Breeds of Cattle and Sheep.* 2 class hours, 4 laboratory hours. 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 organizations 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. 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, and marketing. Diseases. 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 232, 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.
324. *Advanced Poultry Judging*. 6 laboratory hours. 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.
331. *Advanced Livestock 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 livestock shows.
341. *Animal Nutrition and Principles of Feeding*. 3 class hours, 3 laboratory hours. Prerequisite: Chemistry 332. 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.
- 411-2. *Animal Husbandry Seminar*. 1 class hour. Prerequisite: Senior standing in Animal Husbandry. Assigned subjects. Review of recent investigations. Reports and discussions.
430. *Establishing Purebred Herds and Flocks*. 1 class hour, 6 laboratory hours. Prerequisite: Animal Husbandry 331. A study of blood lines, outstanding individuals, and selection of foundation sires and females.
431. *Beef Production*. 2 class hours, 3 laboratory hours. Prerequisite: Animal Husbandry 341, and Genetics 332. The beef cattle industry. 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 industry. 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 the sheep industry. Adaptation of breeds. Breeding, feeding, 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 the hog industry. Breeding, feeding, housing, and marketing. Care and feeding of the breeding herd. Fitting for show and showing. 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 production. 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 the poultry industry. Breeding, hatching, brooding, feeding for egg production and market, marketing and housing. Disease control, parasites and sanitation.
438. *Animal Breeding*. 3 class hours. Prerequisite: Genetics 332. A continuation of Genetics 331 and 332, from the standpoint of farm livestock, poultry and laboratory animals. Fee, \$1.50.
439. *Research Problems in Animal Husbandry*. 3 class hours. Prerequisite: Senior standing in Animal Husbandry. Recent problems in the field of Animal Husbandry. Lectures and research. Recent literature. Spring term only.
441. *Livestock Feeding*. 3 class hours, 3 laboratory hours. Prerequisite: Animal Husbandry 341. Scientific feeding of beef and dairy cattle, hogs, horses, and sheep.

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. *Livestock 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

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 of practical experience before graduation. This practical experience may replace 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. Fee, \$1.50.

230. *The Farm Dairy*. 2 class hours, 3 laboratory hours. Prerequisite: Dairy Manufactures 131. A study of 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 dairy. Fee, \$1.50.
321. *Judging of Dairy Products*. Scoring butter, cheese, ice cream and milk. Fee, \$1.50.
- 331-2. *Market Milk*. First term 3 class hours; second term 2 class hours, 3 laboratory hours. Prerequisite: Dairy Manufactures 230. The distribution of fluid milk. Food value and chemistry of milk, pasteurization, bottling, and retailing. The production of certified milk. Cost studies. Fee, \$1.50.
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 controlling bacteria. 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, \$1.50.
411. *Dairy Manufactures Seminar*. Prerequisite: Senior standing in Dairy Manufactures. A review of current literature. Papers, reports and discussions.
420. *Advanced Judging*. 1 class hour, 3 laboratory hours. Prerequisite: Dairy Manufactures 321. Judging of dairy products. Emphasis on comparative judging. Field trip.
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 Inspection.* 2 class hours, 3 laboratory hours. Prerequisite: Bacteriology 231, Dairy Manufactures 230. A study of milk ordinances. Sanitary regulations. Local, state and federal regulation of dairy products. Fee, \$1.00.
- 436-7. *Ice Cream Making.* First term, 3 class hours; second term, 1 class hour; 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.
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.
440. *Dairy Technology.* Prerequisite: Dairy Manufactures 230. The manufacture of condensed milk and milk powder. The commercial use of whey, buttermilk and casein. Supplemented by field trips.
443. *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. 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 campus ornamentals offer instruction material 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.

131. *Home Gardening*. 2 class hours, 3 laboratory hours. The planning, planting and care of the home vegetable garden and orchard. Soils and fertilizers. Most common methods of budding and grafting. Practical work in greenhouse. 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. Fee, \$1.50.
223. *Vegetable Gardening*. 3 class hours. Prerequisite: Horticulture 141. The basic fundamental principles of successful market gardening and truck farming. Planning, planting and care of the home garden.
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 of annuals, perennials, roses, and bulbous plants for use in and around the home. Practical work in the greenhouse. 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 evergreen 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, and Design of Small Properties*. 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. *Horticulture 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.
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, \$1.50.
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, \$1.50.

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.
- 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.

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 and for those who wish to prepare themselves for teaching home economics in high schools of the State.

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

Two buildings are used for Home Economics teaching, namely, the first unit of the Home Economics Building, and the Home Management House.

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.

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:

	Units
1. English	3
2. Foreign Language	2
3. Mathematics	2
Plane Geometry 1	
Algebra 1	
4. (a) History, civics, economics, sociology, or	
(b) Botany, zoology, chemistry, physics, geology, gen-	
eral biology, etc.	
Two from either.....	2
5. From the group not chosen under (4).....	1
6. From any accredited high school subjects, not more than	
four of which may be vocational subjects.....	5
Total	15

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.

SPECIAL REQUIREMENTS FOR "THE VOCATIONAL CERTIFICATE OF APPROVAL"

Candidates for this Certificate, in addition to completing the requirements for the B. S. degree, must fulfill the following requirements:

1. Home project work as an outgrowth of class work. The amount required will depend upon the needs of the individual student.
2. At least six months experience in actual homemaking. 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.

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 131-2-3—Composition and Rhetoric.....	3	3	3
Zoology 134-5-6—The Human Body.....	3	3	3
*Foreign Language or Elective.....	3	3	3
General Home Economics 131—Orientation.....	3	—	—
Applied Arts 131—Principles of Design.....	—	3	—
Math. 1300—Math. for Home Economics Students.....	—	—	3
Clothing 131—Elementary Textiles.....	3	—	—
Clothing 132—Clothing Construction.....	—	3	—
Clothing 133—Principles of Dress Design.....	—	—	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
Foods 131-2-3—Elementary Food Preparation and Serving.....	3	3	3
Applied Arts 231—Costume Design.....	3	—	—
Clothing 231-2—Elementary Dress Design.....	—	3	3
	16	16	16
Junior Year			
Bacteriology 232-3—Household Bacteriology.....	3	3	—
Chemistry 331-2—Organic Chemistry.....	3	3	—
Government 331-2—American Government.....	—	3	3
Psychology 230—Introduction to Psychology.....	3	—	—
Psychology Elective.....	—	—	3
Foods 231—Meal Planning and Table Service.....	3	—	—
Foods 232-3—Nutrition.....	—	3	3
General Home Economics 332—Household Management.....	3	—	—
Clothing 332—Children's Clothing.....	—	3	—
General Home Economics 461—Residence in Home Management House.....	—	—	6
	15	15	15
Senior Year			
Sociology 231-2-3—Principles of Sociology.....	3	3	3
or			
Economics 231-2-3—Principles of Economics.....	3	—	—
General Home Economics 431—Family Relationships.....	3	—	—
General Home Economics 333—Child Development.....	—	3	—
Clothing Electives.....	—	3	6
Foods Electives.....	3	3	3
General Electives.....	8	3	3
	17	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 MAJOR IN VOCATIONAL HOME ECONOMICS

UNDER SMITH-HUGHES LAW

See note at bottom of this page.

	Term Hours		
	Fall	Wint'r	Spring
Freshman Year			
English 131-2-3—Composition and Rhetoric.....	3	3	3
Zoology 134-5-6—The Human Body.....	3	3	3
General Home Economics 131—Orientation.....	3	—	—
Applied Arts 131—Principles of Design.....	—	3	—
Math. 1300—Math. for Home Economics Students.....	—	—	3
Clothing 131—Elementary Textiles.....	3	—	—
Clothing 132—Clothing Construction.....	—	3	—
Clothing 133—Principles of Dress Design.....	—	—	3
Foods 131-2-3—Elementary Food Preparation and Serving.....	3	3	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
Foods 231—Meal Planning and Table Service.....	3	—	—
Foods 232-3—Nutrition.....	—	3	3
Applied Arts 231—Costume Design.....	3	—	—
Clothing 231-2—Elementary Dress Design.....	—	3	3
Electives.....	3	3	3
	16	16	16
Junior Year			
Chemistry 331-2—Organic Chemistry.....	3	3	—
Bacteriology 232-3—Household Bacteriology.....	3	3	—
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 461—Residence in Home Manage- ment House.....	—	—	6
Foods 331—Lunch Room Management.....	3	—	—
or			
Foods 334—Demonstration Cookery.....	—	3	—
General Home Economics 332—Household Management.....	3	—	—
Clothing 332—Children's Clothing.....	—	3	—
	15	15	15
Senior Year			
Sociology 231-2-3—Principles of Sociology.....	3	3	3
or			
Economics 231-2-3—Principles of Economics.....	3	3	—
Home Economics Education 431-2—Methods in Home Economics.....	3	—	—
Home Economics Education 434—Methods in Clothing.....	—	—	5
Home Economics Education 453—Practice Teaching.....	—	—	—
Clothing 331—Advanced Textiles.....	3	—	—
General Home Economics 333—Child Development.....	—	3	—
General Home Economics 331—Home Nursing.....	—	—	3
General Home Economics 431—Family Relationships.....	3	—	—
Foods 432—Advanced Nutrition.....	—	—	3
Applied Arts 431—Interior Decoration.....	—	3	—
Electives.....	3	3	—
	18	15	14

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	Wint'r	Spring
Freshman Year			
English 131-2-3—Composition and Rhetoric.....	3	3	3
Chemistry 141-2-3—Elementary General Chemistry.....	4	4	4
Foods 131-2-3—Elementary Food Preparation and Serving.....	3	3	3
General Home Economics 131—Orientation.....	3	—	—
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—Elementary Textiles.....	3	—	—
Clothing 132—Clothing Construction.....	—	3	—
Clothing 133—Principles of Dress Design.....	—	—	3
Foods 231—Meal Planning and Table Service.....	3	—	—
Foods 232-3—Nutrition.....	—	3	3
	15	15	15
Junior Year			
Sociology 231-2-3—Principles of Sociology.....	3	3	3
or			
Economics 231-2-3—Principles of Economics.....	—	—	—
Chemistry 331-2—Organic Chemistry.....	3	3	—
Chemistry 338—Methods in Analytical Chemistry.....	—	—	3
Bacteriology 232-3—Household Bacteriology.....	3	3	—
Government 331-2—American Government.....	—	3	—
Foods 331—Lunch Room Management.....	3	—	—
Foods 332—History and Purchasing of Foods.....	—	3	—
Foods 334—Demonstration Cookery.....	—	—	3
General Home Economics 332—Household Management.....	3	—	—
Elective.....	—	—	3
	15	15	15
Senior Year			
Chemistry 448-449—Physiological Chemistry.....	4	4	—
Foods 431—Catering.....	—	—	3
Foods 432—Advanced Nutrition.....	—	3	—
Foods 433—Nutrition in Disease.....	—	—	3
General Home Economics 461—Residence in Home Management House.....	6	—	—
General Home Economics 431—Family Relationships.....	3	—	—
Electives—Home Economics.....	—	6	3
Electives.....	3	3	6
	16	16	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 they schedule Foreign Language 231-2-3; in the latter they should schedule Foreign Language 131-2-3.

CLOTHING AND TEXTILES MAJOR

	Term Hours		
	Fall	Wint'r	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
General Home Economics 131—Orientation.....	3	—	—
Applied Arts 131—Principles of Design.....	—	3	—
Math. 1300—Math. for Home Economics Students.....	—	—	3
Clothing 131—Elementary Textiles.....	3	—	—
Clothing 132—Clothing Construction.....	—	3	—
Clothing 133—Principles of Dress Design.....	—	—	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 131-2-3—Elementary Food Preparation and Serving.....	3	3	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 Elective.....	3	3	3
General Electives.....	2	3	—
	17	15	15

*If two Units in French were presented for entrance schedule French 231-2-3.

DEPARTMENT OF APPLIED ARTS

Associate Professor Dorrel.

The Department of Applied Arts aims to develop appreciation and good taste as well as to afford some opportunity for creative work. The courses are aimed to meet the needs of two groups of students: Those who are majoring in Home Economics and those students from other Schools of the College who wish an initial course in Principles of Design, Costume Design and Interior Decoration.

111. *Art Appreciation*. 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 reproduction.
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, batik. Fee, \$1.50.
133. *Advanced Design*. 6 laboratory hours. Prerequisite: Applied Arts 131, 132. Creative design in line, mass and color to develop more skill and to continue the development of appreciation of decorative design as begun in Applied Arts 131. 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.
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. Field trips used as valuable aids to development of good taste in interior decoration.

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 depart-

ment. Students majoring in Clothing must consult the head of the department regarding advanced courses and electives. Students expecting to teach Clothing in high schools should choose among their electives Home Economics Education 431, 432, 434, 453. Students expecting to teach in vocational high schools should not major in clothing, but in teacher training.

131. *Elementary Textiles*. 3 class hours, 2 laboratory hours. A study of factors influencing quality in materials. Practical problems in recognizing quality and proper uses; in care and in costs of fabrics for clothing and home furnishings. (This course was formerly Clothing 133.) Fee, \$1.50.
132. *Elementary Clothing Construction*. 3 class hours, 3 laboratory hours. Prerequisite: Clothing 131. Use and care of the sewing machine. Principles of choosing and altering patterns. Designing and making a cotton or linen tailored dress suitable to the individual, stressing the foundation principles for good technique in sewing. (This course was formerly Clothing 131). Fee, \$1.50.
133. *Principles of Dress Selection*. 3 class hours, 3 laboratory hours. Prerequisite: Clothing 132. Practical problems in hygiene of dress, the care and repair of garments, selection of harmonious ensembles most suitable to the individual from the standpoint of art principles, occasions, and costs. Making a cotton or linen afternoon type of dress. (This course was formerly Clothing 132). Fee, \$1.00.
135. *Craft Work in Textiles*. 6 laboratory hours. Prerequisite: Clothing 133 and Applied Arts 131. Constructing handwoven articles such as rugs, purses and scarfs. Preparing warp, winding warp, threading loom for pattern weaves, plain weaving, and figured weaving. Dyeing yarns and other materials. Designing and hooking rugs. Finishing and mounting such articles as purses. Fee, \$1.50.
136. *Craft Work in Textiles*. 6 laboratory hours. Prerequisite: Clothing 135. Continuation of Clothing 135. Emphasis on advanced patterns, original patterns. Embroidery and tapestry weaving. Constructing simple looms. Fee, \$1.50.
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 vacation. 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. *Textile Economics*. Prerequisite: Clothing 232 and junior standing. 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; History, 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 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. Time and cost studies. 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 instructor. The application of design principles to the decoration of costume. Adaptation of commercial stamping patterns. Development of original designs. 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.

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, 453. Students expecting to teach home economics in a vocational high school should not major in this department but in teacher training.

131-2-3. *Elementary Food Preparation and Serving*. 1 class hour, 4 laboratory hours. A study of the fundamental principles of cookery in their relation to all types of foods. Production, care, preservation, cost, and nutritive value of foods. The planning and serving of simple home meals. Students who present a certificate from a vocational high school and can show by satisfactorily passing a placement test that they can do 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, \$4.00.

225. *Home Project in Foods*. Prerequisite: Foods 131-2, 133. Home experience in connection with foods work under the supervision 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 undertaking. Fee, \$1.50.

231. *Meal Planning and Table Service*. 1 class hour, 6 laboratory hours. Prerequisite: Foods 131-2-3. The planning, cooking, and serving suppers, luncheons, dinners, buffet suppers, and afternoon teas. Food combinations in relation to the aesthetic and the nutritive aspects of menu planning. Computations of costs of meals, and compilation of food budgets. Fee, \$1.50.

232-3. *Nutrition*. 2 class hours, 3 laboratory hours. Prerequisite: Foods 231. Prerequisite or parallel: Chemistry 141, Zoology 134-5-6. A study of the food requirements in normal nutrition.

The weighing of foods and the analysis and computation of food values. The essentials of an adequate diet for groups and for individuals of different age levels. Fee, \$2.50.

234. *Food Selection and Serving.* 2 class hours, 2 laboratory hours. A course for Liberal Arts students. Food preparation in meal combinations. Emphasis upon selection of foods for health. Fee, \$1.50.
331. *Luncheon Management.* 1 class hour, 6 laboratory hours. Prerequisite: Foods 233. The adaptation of the knowledge gained in foods and nutrition to the feeding of groups of children of school age. Equipment, marketing, keeping of accounts. Also, the educational, social, and economic phases of school feeding. Practical experience in the College Tea Room. Fee, \$1.50.
332. *Marketing.* 2 class hours, 2 laboratory hours. Prerequisite: Foods 233. Intelligent buying of food supplies, with emphasis on the relation of the producer to the consumer, and the methods of reducing food costs. Laboratory work includes visits to available food industries and food markets.
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; methods of canning and food preservation. Demonstrations given by each member of the class. Fee, \$1.50.
335. *Introduction to Research in Cookery.* 1 class hour, 4 laboratory hours. Prerequisite: Foods 233. Experimental work on various problems in the field of cookery. Factors influencing food preparation. Comparison of commercially prepared and home prepared foods.
431. *Catering.* 1 class hour, 6 laboratory hours. Prerequisite: Junior or senior standing and completion of Foods courses 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, \$1.50.
432. *Advanced Nutrition.* 2 class hours, 2 laboratory hours. Prerequisite: Foods 233. Reports and discussions of recent advances in the science of nutrition. Experimental work with laboratory animals. Fee, \$1.50.
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. Fee, \$1.00.

DEPARTMENT OF HOME ECONOMICS EDUCATION

Professors Weeks, Erwin. Assistant Professor 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 subject 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.
453. *Practice Teaching in Home Economics*. Prerequisite: Home Economics Education 432. Senior standing. The practice teaching is done in the city schools of 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:

131. *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. Fee, 50 cents.

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 Development*. 2 class hours, 2 laboratory hours. Prerequisite: Psychology 230. A study of the mental and physical care of the child. Fee, 50 cents.
334. *Practicum in Nursery School*. Prerequisite: General Home Economics 333. Offered in Summer Sessions only.
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.

DEPARTMENT OF EXTENSION

J. F. McDONALD, DIRECTOR

The Texas Technological College through the Department of Extension offers over two hundred and fifty courses to those who cannot attend the regular daily classes. The Department of Extension has been approved for correspondence and extension class work by the Association of Texas Colleges, and is a member of the National University Extension Association.

DEPARTMENTS

The extension service includes: (1) correspondence instruction, (2) class work in centers away from the campus, (3) night classes on the campus, (4) adult, non-credit courses, and (5) group-study courses for clubs and societies.

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 B. A. degree, and one-half of the work required for a teacher's certificate may be done by correspondence study. Additional work may be done through extension classes. Both graduate and undergraduate courses may be taken through extension classes.

2. The registration fee for each correspondence or extension course (three term hours) is ten dollars, payable in advance, and is not refunded. Extra fees are charged in case of laboratory courses.

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 correspondence or extension class 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. Student should send in at least one lesson each week to his instructor in a correspondence course. The course should be completed within three months. It may not be completed in less than thirty days, nor in over twelve months. It must be begun within three months, or become inactive. A fee of one dollar is charged to restore it to the active list.

8. Extension class courses for credit run three months, or the equivalent. Adult, non-credit courses vary in the time required.

9. If college credit is to be given, the courses must be concluded by final examinations.

10. The examinations must be taken under the supervision of the instructor, or of an official examiner, who is usually a county superintendent or a city superintendent.

11. In correspondence work, when a student is ready for the final examination he will send an examination fee of one dollar to the Department of Extension. There is no fee, however, when the examination is taken on the college campus.

12. Textbooks may be purchased from the Bookstore, Texas Technological College, Lubbock, Texas, or from the publishers.

13. 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.

Agricultural Economics and Farm Management.

- 231. Principles of Agricultural Economics.
- 332. Principles of Agricultural marketing.
- 333. Co-operative Marketing.
- 431. Land Economics.

Agronomy.

- 235. Soils.

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.
- 341. Animal Nutrition.

Dairy Manufactures.

- 131. Principles of Dairying.*

Horticulture.

- 141. Plant Propagation.*
- 233. Vegetable Gardening.

Bible.

- 131, 132, 133. Old Testament Introduction.
- 134, 135, 136. New Testament Introduction.
- 231. Life of Jesus.
- 232, 233. The Teachings of Jesus.
- 331, 332, 333. Old Testament History.

NOTE: Bible 131, 133, 134, and 231 are independent thirds.

Biology.

- 230. Methods of Teaching Biology.
- 231. Heredity.

Botany.

- 231, 232. Plant Morphology. (Laboratory required.)
- 233. Taxonomy of the Sphematophytes. (Laboratory required.)

Chemistry.

- * 230. Methods of Teaching Chemistry.
- 234, 235, 236. The Principles of Chemistry.

Economics and Business Administration.

- 231, 232, 233. Introduction to Economics.
- 234, 235, 236. Introduction to Accounting.
- 331, 332, 333. Introduction to Business Administration.
- 334, 335, 336. Commercial Law.
- 337, 338, 339. Administration of Finance.
- 3310, 3311, 3312. Marketing Administration.
- 3313, 3314, 3315. Money, Banking and Business Cycles.
- 3316-17-18. Corporation Accounting and Budgetary Control.
- 3321, 3322, 3323. Industrial Management.
- 3340-41-42. Business Communication.
- 431. Advertising Principles and Practice. (Same as Journalism 334.)

*Laboratory course.

- 4213-14-15. Cost Accounting.
- 4330-31-32. Insurance.
- 4332-33-34. Auditing and Advanced Problems.

Education. Freshman and Sophomore.

- 131. Introduction to Education.
- 132. Classroom Organization and Control.
- 133. Methods of Teaching in the Elementary Grades.
- 138. Methods in Elementary English.
- 230. Rural Education.
- 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. The Teaching of Primary Reading.
- 2372. The Teaching of Reading.
- 238. Literature in the Primary Grades.
- 2311. School Health and Hygiene.

Education. Advanced.

- 330. The Principal and His School.
- 331. Principles of Education.
- 332. High School Problems.
- 335. The Junior High School.
- 336. Vocational Guidance.
- 337. Classroom Tests.
- 3313. Measurement in Education.
- 3315. Foundation of Methods.
- 3316. Group Study Method.
- 431. Directing Study.
- 432. Texas Educational System.
- 434. Education in the United States.
- 436. Public School Administration.
- 437. School Publicity.
- 438. Supervision of Instruction.
- 439. The Philosophy of Education.

Psychology.

- 230. Introduction to Psychology.
- 231. Educational Psychology.
- 232. General Psychology.
- 332. Advanced Educational Psychology.
- 335. The Psychology of Adolescence.
- 337. Statistics.

Education. Special Methods. (See Respective Departments)

- 230A. Methods of Teaching Arithmetic.
- 230B. Methods of Teaching Biology.

- 230C. Methods of Teaching Chemistry.
- 233A. Methods of Teaching Physics.
- 3310A. Methods of Teaching English in High School.
- 334A. Methods of Teaching Algebra.
- 335A. Methods of Teaching Geometry.
- 339A. Methods of Teaching Latin.
- 437A. Methods of Teaching Spanish.
- 530A. Teaching of History in Junior and Senior High Schools.

English. Freshman and Sophomore.

- 131, 132, 133. Composition and Rhetoric.
- 231. Introduction to Poetry.
- 232. Introduction to Drama.
- 233. Introduction to Prose Fiction.
- 236. Biblical Literature.

English. Advanced.

- 332. History of the English Language.
- 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.
- 434. Milton.
- 435. English Romanticism: Burns, Wordsworth, and Coleridge.
- 436. English Romanticism: Byron, Shelley, and Keats.
- 439. Contemporary Drama: Ibsen to Shaw.
- 4391. Tennyson and Browning.
- 4393. The Age of Johnson: Johnson and His Circle.
- 530. The Short Story: American and English.
- 531. American Novel: 1870 to Present.
- 532. The English Novel: Lyly to Scott.
- 533. Types of English and Foreign Fiction, 1935-1910.
- 536. Contemporary English and American Essay.
- 5330. The Structure of the Novel.

English. Journalism.

- 234. Newspaper Reporting.
- 235. Newspaper Writing.
- 236. Copy Reading and Headline Writing.
- 334. Advertising (Same as 431, Business Administration).
- 335. Special Feature Articles.
- 337. Problems of the Community Newspaper.
- 338. Editorial Writing.
- 339. History of American Journalism.
- 3310. Writing for Print.
- 430. Principles of Journalism.

- 431. Publicity.
- 432. High School Journalism.

French.

- 131, 132, 133. Beginners' French.
- 231, 232, 233. Reading of French Texts.

Geology. Geography.

- 131, 132, 133. Human Geography. (Laboratory or non-lab.)

German.

- 131, 132, 133. Beginners' German.
- 231, 232, 233. Reading of German Texts.
- 334, 335, 336. Scientific and Commercial German.

Government.

- 131, 132. American Government, National.
- 133. American Government, State, including Texas.
- 230. American Government, National and State, including Texas.
- 234. Introduction to Political Science.
- 235. Modern Governments.
- 236. Modern Governments (Cont.)
- 3311. Municipal Government.
- 3312. Municipal Administration.
- 3314. County Government and Administration.
- 331, 332. American Government, National and State.
- 3351. Party Development.
- 3352. Party Analysis.

NOTE: Government 131-132-133, or 230, or 331-332 satisfy certificate and degree requirements.

History.

- 131, 132, 133. History of Civilization.
- 231, 232, 233. History of the United States.
- 234, 235, 236. History of England.
- 530. Methods of Teaching History.

History. Philosophy and Sociology.

- 231. Introduction to Philosophy.
- 232. Logic.
- 233. Ethics.
- 231, 232, 233. Principles of Sociology.

Home Economics.

- 131. Applied Art: Principles of Design.
- 133. Clothing: Principles of Dress Selection.
- 133. Foods: Elementary Nutrition.

Latin.

- 131, 132, 133. Beginning Latin.
- 231, 232, 233. Reading and Composition.
- 237, 238, 239. Cicero, Terence, and Horace.
- 339. Methods of Teaching Latin.

Mathematics.

- 100. Solid Geometry.
- 130. Intermediate Algebra.
- 131. College Algebra.
- 132. Plane Trigonometry.
- 133. Introduction to Analytical Geometry and Trigonometric Analysis.
- 230. Methods of Teaching Arithmetic.
- 231. Plane Analytical Geometry.
- 232. Advanced Algebra.
- 233. Advanced College Algebra. (Continued).
- 234. Differential Calculus.
- 235. Differential Calculus. (Continued).
- 236. Applications of Differential Calculus.
- 330. Solid Analytical Geometry.
- 331. Elementary Theory of Equations.
- 332. Elementary Theory of Equations. (Continued).
- 333. Elementary Theory of Equations. (Continued).
- 334. Methods of Teaching Algebra.
- 335. Methods of Teaching Geometry.

Music.

- 134, 135, 136. Elementary Music.
- 234, 235. Elementary Harmony.
- 334, 335. Practical Counterpoint.

Philosophy.

- 231. Introduction to Philosophy.
- 232. Logic.
- 233. Ethics.

Physical Education.

- 031. Physical and Health Education in the Public Schools.
- 232. History of Physical Education.
- 233. Organization of Physical Education in Elementary Schools.
- 234. Organization of Physical Education in Secondary Schools.

Physics.

- 233. The Teaching of Physics.
- 324, 325, 326. Problems in Physics.
- 338, 339. Electricity and Magnetism. (Theory).

Sociology.

231, 232, 233. Principles of Sociology.

Spanish.

- 131, 132, 133. Beginners' Spanish.
- 231, 232, 233. Grammar, Reading, and Compositions.
- 331, 332, 333. Contemporary Literature.
- 334, 335, 336. Commercial Spanish.
- 437. Teachers' Course in Methods of Teaching Spanish.

(Prerequisite: Spanish 331, 332, 333, or its equivalent, and one course in Education).

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:

- Agriculture, $\frac{1}{2}$ to 1 unit.
- Bookkeeping, $\frac{1}{2}$ to 1 unit.
- Commercial Geography, $\frac{1}{2}$ unit.
- Economics, $\frac{1}{2}$ unit.

English.

- Composition and Rhetoric, 1 to 2 units.
- American Literature and Composition, 1 unit.
- English Literature and Composition, 1 unit.

History and Civics.

- Ancient History, 1 unit.
- American History, $\frac{1}{2}$ to 1 unit.
- Civics, $\frac{1}{2}$ to 1 unit.
- English History, $\frac{1}{2}$ to 1 unit.
- Modern History, 1 unit.

Mathematics.

- Algebra 1: Beginners' Course, 1 unit.
- Algebra 2: Continuation of Algebra 1, 1 unit.
- Plane Geometry 1: Plane Geometry, $\frac{1}{2}$ unit.
- Plane Geometry 2: Plane Geometry Completed, $\frac{1}{2}$ unit.
- Solid Geometry 3: Required of all Engineering Students, $\frac{1}{2}$ unit.
- Spanish, 1 to 2 units.

EXTENSION CLASS INSTRUCTION

Extension classes will be organized in centers, upon request of a sufficient number of students, depending on the distance. Resident credit is granted. Both graduate and undergraduate courses are avail-

able. 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 is generally \$10.00 per term. A 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.

THE SUMMER SESSION

The summer session of Texas Technological College is an integral part of the college year. All courses offered in the summer have the same credit as in the other quarters. Summer session attendance has steadily grown from 336 the first year to 1316 in 1930. The entire College plant is available for use, and many of the members of the regular faculty, assisted by visiting specialists of recognized standing, offer both regular and special courses.

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.

For the accommodation of those who cannot devote the entire summer to study but who desire college credit, the summer session is divided into two terms of six weeks each. Students may enter for either term or for both terms.

Certain courses, such as the laboratory sciences, mathematics, and observation and practice teaching, are arranged so that persons desiring to fulfill degree requirements may complete for credit more than the usual amount of work in these subjects in any one term. The work is so arranged that by concentrating on a given subject a student may in this subject complete a year's work in six weeks.

Courses are offered both terms by which a teacher's certificate of any class may be extended for one year provided the certificate expires that year and after the summer session opens.

At the close of the second term of the summer session, graduation exercises are held and degrees are conferred, although the chief graduation exercises of the College are held at the close of the spring term.

THE 1931 SUMMER SESSION

The first term of the summer session of 1931 will open Tuesday, June 9, and close July 18. The second term will open July 20 and close August 27.

THE SUMMER SCHOOL CATALOGUE

The April, 1931, number of the College bulletin contains 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, 1930-31**May 6, 1931.*

School	Freshmen	Sophomores	Juniors	Seniors	Graduates	Totals
Agriculture	112	47	35	19	3	216
Engineering	296	83	51	38	0	468
Home Economics.....	102	77	32	28	0	239
Liberal Arts	771	288	122	156	59	1396
Totals	1281	495	240	241	62	2319
	Men Students		Women Students		Totals	
Agriculture	215		1		216	
Engineering	466		2		468	
Home Economics.....	0		239		239	
Liberal Arts	738		658		1396	
Totals	1419		900		2319	

DEGREES CONFERRED 1925-1930

School of Agriculture:	
Bachelor of Science.....	39
School of Engineering:	
Bachelor of Science.....	44
School of Home Economics:	
Bachelor of Science.....	31
School of Liberal Arts:	
Master of Arts.....	28
Bachelor of Arts.....	358
Doctor of Laws.....	1
Total	501

ATTENDANCE 1925-30

	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
1929-30	2353	1316	1098	4767

DEGREES CONFERRED—1929-30

Degrees are conferred twice in each year, as follows: (1) at the end of the regular session in May or June; (2) at the end of the summer session in August.

May 26, 1930.

SCHOOL OF AGRICULTURE

Degree of Bachelor of Science

Robert L. Burdette
Orval N. Burroughs
J. E. Couch
Lyle Currie Dalton
Curtis A. Grimes
Horace L. Hershey
Warren M. Huff

James A. Jackson
Frank B. Main
Joseph J. Nelson
Simon Richard Senter
Ike J. Walker
Ransom P. Walker

SCHOOL OF ENGINEERING

Degree of Bachelor of Science in Architectural Engineering

Elmer Devenport
Robert L. Hastings

Edna N. Houghton
James Lloyd Russell

Degree of Bachelor of Science in Civil Engineering

Robert Hugh Archibald
Hugh Marion Hancock
Alfred John Van Dyke

Elbert K. Hester
Elmer W. Hester

Degree of Bachelor of Science in Electrical Engineering

Edd McDonald
William Haynie Spencer

William Ezra Street

Degree of Bachelor of Science in Mechanical Engineering

Robert Lee Taylor
J. B. Calvert (Chemical Option).

George Wilson Drake (Chemical Option).

Degree of Bachelor of Science in Textile Engineering

Charles Clyde Williams

SCHOOL OF HOME ECONOMICS

Degree of Bachelor of Science

Nora Pettus Cocke
Annie Merrill Ellsworth
Faye Kemp

Hattie Kathleen Mounts
Bettie K. Stuart

SCHOOL OF LIBERAL ARTS

Degree of Bachelor of Arts

Mildred Bagley
 Mary Lou Bayless
 Elizabeth Doverie
 Vada Laurene Bussey
 Jack Warren Camp
 Gertrude Harris Cook
 Lois Cooper
 Delmar Ray Criswell
 Fred Deforest Crosland
 James Hollie Cross
 Willie Pearl Dockray
 Robert Foster Davis
 Wilma E. Dyer
 Marjorie Eagan Mitchell
 Billye Pearl Tyler Eubanks
 Lou Rachel Featherston
 Clyde Leeman Fincher
 Lois Elizabeth Gable
 Velma Pearl Gaines
 Mary Gladys Gilbert
 Palmer Talmage Glazner
 Joseph Wesley Gordon
 Mary Lilith Greathouse
 La Thaggar Green, Jr.
 Eunice Rebecca Hamilton
 Thomas Herbert Hickey
 Loydell Hill
 Pauline Holland
 Lucile Houston
 Louis Elmer Huff
 Anna Burkett Jackson
 Hazel Valree Lewis
 Robert Lee McDonald, Jr.
 Mary Louise McNeill
 Volney Guy Martin

Mary Louise Middleton
 Elmer J. Moore
 Fred Holmsley Moore
 Lillian Fay Nelson
 Maggie Gertrude Osborne
 Florence Pankey
 Lillian A. Park
 Martha Pfaff
 Carl Rudolph Pfluger
 Elliott Holcomb Powers
 Sally Kate Pressley
 Phelo Mae Resek
 Hazel Reeves
 Helen Ruth Reeves
 Alice Ann Rix
 Jennie Lansden Robison
 Roland Gooch Russ, Jr.
 Dorothy Jane Rylander
 King James Sides
 Katherine Smith
 Walter Clifford Scott
 Mary Dudley Snyder
 Jesse Thomas Stalcup
 Eleanor Ottilia Struve
 Bettie Crab Thornton
 Margaret Alma Trigg
 Wayne Varley
 Ada Hanson Waghorne
 Holmes Andrew Webb
 Robert Sidney White
 Edward Williams
 Willa Faye Williams
 Josephine Witt
 Blanche Zeman
 Cecil R. Williams

Degree of Master of Arts

Ethridge William Eagan (B. A., Texas Technological College); Thesis:
 "Zoning in Texas."
 Hubert Calvin Hervey (B. A., Texas Technological College); Thesis:
 "Community Little Theatre of Texas."

Degree of Doctor of Laws

Amon G. Carter, L. L. D.—Honorary.

August 22, 1930.

SCHOOL OF AGRICULTURE

Degree of Bachelor of Science

Guy C. Blanton
 James M. Dunham

Willie G. Vinzant

SCHOOL OF ENGINEERING

Degree of Bachelor of Science in Civil Engineering

Gordon Thomson

Degree of Bachelor of Science in Electrical Engineering

Melvern C. Hunter

Clarence J. Rollo

Degree of Bachelor of Science in Mechanical Engineering

Kimsey T. Miller

Degree of Bachelor of Science in Textile Engineering

Charles William Wooldridge

Degree of Bachelor of Science in Geological Engineering

Louis N. Brown

SCHOOL OF HOME ECONOMICS

Degree of Bachelor of Science

Roxana Ruth Ford

Anna Mabel Howell

SCHOOL OF LIBERAL ARTS

Degree of Bachelor of Arts

Eugene Gould Armstrong

Mildred Arnett

Minnie Dumas Bachman

Joe Allen Ballard

Margaret Baskin

Frank Marion Beauchamp

Alma Alland Caldwell

Edgar Neal Cappleman

Mary Edna Chapman

Lawrence Clark

Helen Janette Coon

Richard Levy Craig

William Lloyd Croslin

Georgia Lee Drake

David Allison Edwards

Mary Virginia Erwin

Elton Evans Flake

Addie Belle Fort

Glyds Grimsley

Roy Lee Hooten

Stella B. Jackson

Cleo Violet Lawrence

Roy Carson Lindley

Zula Mae Logan

Margaret McNabb

James Edward Miller

Alma Leta Moore

Charles Collins Moorhouse

Elmer Earl Noble

Eudora Noel

H. B. O'Neill

Delia Jane Palmer

Ethel Octavo Palmer

Robert Parker

Ameral Payne

James Porter Pierce

Lucile Polk

John Riley Powell

Charles Gambrell Rankin

Mary Elmore Rankin

Mildred Lucille Scudder

Ray L. Showalter

Clarence Hall Smith

Anne Snyder

Frank Augustus Spring

M. Frank Stephens

Pauline Swepton

Minnie Ray Bachman Swofford

William Sterrett Thomas

Rupert Gordon Treadaway

Earl Hudson Turner

Lula Irene Vermillion

George Marion Waddill, Jr.

Robert McGraw Webb

Irene Perry Whatley

Lois Wynn Williamson

Degree of Master of Arts

Frank Orion Boles (B. A., Simmons University); Thesis: "The Present Status of Pupil Transportation with Particular Reference to Lamb County, Texas."

Harry Mortimer Crain, Jr., (B. A., Bethel College); Thesis: "An Etymological Study of Selected Old English Words."

Homer Jesse Jackson, (B. A., Baylor University); Thesis: "Judicial Interpretation of the Texas Bill of Rights, Sections XV to XXIX."

Horace Andrew Jackson (B. A., Baylor University); Thesis: "Judicial Interpretation of the Texas Bill of Rights, Sections I to XIV."

Oswald John Laas, (B. S., Sam Houston State Teachers College); Thesis: "A Comparative Study of Sixty and of Forty-five Minute Periods for High School Recitation."

Charles R. Lail, (B. A., University of Texas); Thesis: "Educational History of Knox County."

Aaron B. Sanders, (B. A., Simmons University); Thesis: "A Financial Survey of the Ralls Independent School District."

Lorenzo Zachery Timmons, (B. A., Baylor University); Thesis: "A Study of Correspondence Study, for College Credit in Texas Colleges and Universities."

Mary Hope Westbrook, (B. A., Texas Technological College); Thesis: "Changes in the 1805-6 and 1850 Manuscripts of Wordsworth's 'The Prelude.'"

Eufaula Wise, (B. A., Simmons University); Thesis: "Roots of Equations and Their Derivatives."

Mamie Wolffarth, (B. A., Texas Technological College); Thesis: "Political Relations of the United States and Nicaragua."

ROSTER OF STUDENTS

ROSTER OF NEW STUDENTS FOR THE WINTER AND SPRING TERMS,
1929-1930.

The fifth annual catalogue went to press too early to contain the names of the students who entered the College after January 1, 1930. Names of students who were not registered in the fall term 1929-30 but who were registered in the College in the winter and spring terms are listed herewith:

Abbitt, W. H.	Lubbock
Abbott, Lavelle	Lubbock
Adams, Clarence	Rotan
Adkisson, Alfred	Lubbock
Adams, Erie Dell	Littlefield
Alexander, Alma	Lubbock
Allen, Mary Ruth	Lubbock
Allison, Roger	Coleman
Anderson, Beulah	Shallowater
Angle, W. E.	Muleshoe
Armstrong, Ena	Thrifty
Armstrong, Eugene	Lubbock
Armstrong, Virtus	Rising Star
Ashley, Aubrey	Lorenzo
Atchison, Ben	Lubbock
Ayers, Vernon	Meadow
Bailey, Clara	Chillicothe
Baker, Lennis	Lubbock
Ball, Erlene	Lorenzo
Barrett, Ernest	Lamesa
Barrier, Annie Lou	Lubbock
Battin, Buford	Lubbock
Bayless, Mary Lou	Lubbock
Beauchamp, Frank	Turkey
Bell, Dorothy Ruth	Lubbock
Bickley, Cecil	Lubbock
Bickley, Annie Fern	Lubbock
Bishop, Audrey	Wingate
Bishop, Clara May	Lubbock
Bishop, James	Lubbock
Bivins, D. D.	Gould, Okla.
Blake, Elmer	Gainesville
Bledsoe, Mrs. W. H.	Lubbock
Bobo, Clarence	Paducah
Bond, Richard	Waurika, Okla.
Bowers, Jessie	Bledsoe
Bryan, Mrs. J. N.	Lubbock
Bryant, Olin	Lubbock
Burleson, G. A.	Wortham
Busby, H. E.	Houston
Butler, Wayne Stacy	Lubbock
Bowman, Howard	Austin

Buckner, Mary Dale	Lubbock
Bussey, Clinton	Lubbock
Brinker, Mrs. D. P.	Lubbock
Cameron, Alexander	Wichita Falls
Cargile, Homer	Lubbock
Carter, Dick	Plainview
Cartlidge, Murray	Kirkland
Cassile, Mrs. V. S.	Lubbock
Casteel, Walter	Lubbock
Chance, Dillie Mae	Anton
Cheves, Claude H.	Shamrock
Childre, Jim	Hereford
Clifton, Mrs. Eva	Lubbock
Cline, Esther	Lubbock
Clingsmith, Ira	Hart
Coles, Mrs. Ewell	Colorado
Coles, Ewell	Colorado
Collier, Margie	Stanton
Collier, Nancy	Lubbock
Collins, Lucille	Amherst
Connally, Wendell	Waco
Cook, Clinton	Post
Copeland, Monroe	Graham
Cooper, Robert	Lubbock
Cowan, Thelma	Bowie
Crain, Mary Lou	Floydada
Crain, H. M., Jr.	Parish, Ala.
Crawford, Elsie	Post
Culwell, Ruth	Lubbock
Dickson, Ernest	Kilgore
Dillard, Glenna	Lubbock
Dunlap, Mildred	Spur
Dunlap, Margaret Ruth	Lubbock
Dyer, Ruby	Lubbock
Eklund, Lillian	Slaton
Eklund, Sophia	Slaton
Ellsworth, Heber	Rexberg, Idaho
Ely, Jack	Hermleigh
Enochs, Mrs. Crawford	Lubbock
Ewen, Olive Ruth	Memphis
Ewing, J. C.	Denton
Fincher, E. B.	Amarillo
Fincher, Gladys	Amarillo
Forbes, James W.	Waxahachie
French, Marion	Stamford
Frnka, Irene	Garwood
Fowler, Graves	Sudan
Gaines, Arch	Rochelle
Gallman, Flandie	Frost
Gleason, Dorothy	Tucumcari, N. M.
Gibson, Carroll	Carlton

Gibson, Truett	Carlton
Gordon, Imogene	Lubbock
Grannis, Justin W.	Kingman, Ariz.
Grayum, Gerome	Paducah
Gregg, Bernard	Fort Worth
Green, Alice	Lockney
Green, George	Portales, N. M.
Grice, Carra	Eden
Hackney, Glenn	Pickton
Hair, Sam. R.	Claude
Halsey, Lee	Plainview
Holloman, Cletis	Vernon
Hargrove, Pauline	Colorado
Harper, R. D.	Lubbock
Hart, Hugh	Tahoka
Havis, A. Leon	Roaring Springs
Henry, Charles	Sweetwater
Hignite, Erma	Anton
Hitt, Mabel Irene	Lubbock
Hollingsworth, Mrs. J.	Lubbock
Howard, Ryan M.	Lelia Lake
Hudson, Basil	Westbrook
Huff, L. E.	Lubbock
Hughett, Pauline	Lubbock
Ing, Emory	Lubbock
James, Clyde	Lubbock
Jones, Jerald	Perryton
Keaton, Paul	Weatherford
Kelsey, Cecil	Lorenzo
Kelso, Roy	Merkel
Killin, Hugh E.	Lubbock
King, Arch	Lubbock
Kittley, Elbert	Lubbock
Klattenhoff, Ben	Slaton
Knox, Eugene	Lubbock
Kreuger, Mrs. J. T.	Lubbock
Lassiter, Ollie Maud	Spur
Lawler, Mattie Lou	Athens
Lawley, Lola	Big Spring
Lawson, Kermit	Panhandle
Leaverton, Joe	Lubbock
Lee, Laurel	Lubbock
Liggett, Nable	Byers
Little, Ruth	Holliday
Luna, Ircillia	Lubbock
Martin, John Rogers	Hillsboro
May, Ada Ruth	Lubbock
Meachum, Frances V.	Lubbock
Medlin, Weaver	Stamford
Meyers, Marvin	Lubbock

Meharg, Travis	Gatesville
Millsap, Hallie Jess	Lamesa
Moffatt, Bob	Lamesa
Moody, Haden	Becton
Moore, Garland	Lamesa
Moore, Inez	Lubbock
Morrison, Esther	Clarendon
Murray, Corene	Lubbock
Marshall, R. C.	Hillsboro
Martin, Guy	Knox City
Mason, Leon	Lubbock
Mason, Mamie	Crosbyton
McCarty, Paul	Lubbock
McElroy, Roy W.	Lubbock
McIlhaney, Jesse	Lubbock
McKenzie, Lois	Abernathy
McMurtry, Sam	Shamrock
McNeil, Kenneth	Raymondville
Meier, Mrs. Irene	Lubbock
Mere, Mrs. Callie Harris	Lubbock
Mosley, Anna Mae	Lubbock
Neece, Alvena	Shamrock
Nelson, Ernest	Lubbock
Newsom, Gladys	Brownfield
Nicklas, Thurston	Ft. Towson, Okla.
Noble, Earle	Lubbock
O'Dell, Mrs. Jewell Taylor	Lubbock
O'Neal, Nance	Lubbock
Palmer, Delia	Lubbock
Payne, Hugh G.	Lubbock
Park, Lillian	Knox City
Parker, Travis	Lubbock
Parker, Wardell	Rankin
Parkinson, Cap	Lubbock
Patten, Maurine	Ralls
Patton, Opal	Matador
Pearson, Robert C.	Memphis
Penny, Ruby	Lubbock
Penuel, Cynthia	Lou
Perkins, Everett	Ennis
Perkins, Glenn	Hale Center
Persons, Sue Mae	Quitaque
Pettigrew, Gladys	Justiceburg
Peveto, Audrey	Lubbock
Phillips, Johnie	Lubbock
Pickett, Florence	Lubbock
Plemons, Elmore	Matador
Pool, Phyllis	Lubbock
Porter, George	Jacksboro
Porter, Tom	Dickens
Powell, St. Elmo	Memphis
Pressgrove, Louise	Shelbyville, Tenn.
Preston, Howard G.	Sudan

Price, Juanita	Lubbock
Price, Wasson	Plainview
Pritchard, Mrs. J. W.	Lubbock
Puckett, Margaret	Amarillo
Patliff, Edward	Eldorado
Ray, Earl	Midland
Red, Janice	Wortham
Reeves, Forrest	Lubbock
Replin, Joe	Lubbock
Rich, Robert	Lubbock
Richardson, Orville	Ropesville
Riethmayer, L. C.	Sparsburg
Rix, Mrs. J. A.	Lubbock
Robinson, H. L.	Frankston
Robinson, Roy	Lubbock
Robison, Eva	Cary
Roe, Gertie	Azle
Rowland, Keefe	Vernon
Rowland, Melvin	Del Rio
Russell, Margie	Lubbock
Schroeter, Major	Abernathy
Schwalbe, Cecil	Jonesboro
Scoggin, Mrs. Carl	Lubbock
Sears, Mrs. Jno. L.	Lubbock
Shaller, Ruth	Canadian
Shaw, Christine	Crosbyton
Shaw, Fred	Crosbyton
Sheely, Ronald S.	Lubbock
Sherrill, Myrl	Tahoka
Slaton, Oscar	Lubbock
Sloman, Willie	Lubbock
Smallwood, Virginia	Lubbock
Smith, Clarence	Palo Pinto
Smith, D. Wilson	Llano
Smith, Harold	Lubbock
Smith, Macon	Brownsville
Smith, Velma D.	Lubbock
Smith, Victor	Merkel
Snider, Montez	Lubbock
Sowell, Katheryn	Lubbock
Spikes, Arphice	Lone Oak
Stark, Florence	Lubbock
Stedham, Charles W.	Memphis
Stevens, Louise	Quanah
Still, James O.	Ropes
Stringer, A. L.	Lubbock
Stroup, Charles	Lubbock
Suggs, George	Hereford
Swain, Mrs. Alton	Lubbock
Swan, Harold	Mt. Pleasant
Teague, Enloe S.	Olney
Teague, N. Burl	Lamesa
Teal, Vera	Lubbock

Terrell, Byron G.	Lubbock
Teubel, Mrs. Vera Reed	Lubbock
Thompson, Buster	Rule
Thompson, James B.	Lorenzo
Thornton, Bettie C.	Slaton
Trostle, Mrs. Nelloe	Lubbock
Trostle, Nevin	Lubbock
Tunnell, Mrs. Lenore	Tahoka
Tyler, Frances	Claude
Vallance, Mrs. Minnie	Lubbock
Vaughan, Leroy W.	Lubbock
Wallis, Sam	Weatherford
Waller, J. Everett	Morgan
Watkins, Ira	Meadow
Wesner, Ernest	Eldorado
West, C. Eugene	Sudan
Wheeler, Ralph	Lorenzo
Wheeler, Wilburn	Abernathy
Wilhite, Genelle	Lubbock
Williams, Cecil	Lubbock
Williams, Joel	McCann
Williamson, J. C.	Lubbock
Williamson, Silas	Lubbock
Wilson, Mrs. Roscoe	Lubbock
Wilson, Sue Margaret	Lubbock
Wilson, Walton	Floydada
Wolcott, Ruth	Midland
Woods, Mrs. H. D.	Lubbock
Woodward, Vance	Lorenzo
Woody, Geneva	Crosbyton
Wooldridge, Floyd A.	Plainview
Workman, Lorene	Lockney
Wright, Charles	Lubbock
Wright, Ellis	Palmer
Yager, F. W.	Lubbock
Young, Adelaide	Kerens
Young, Johnnie	Yantis
Young, R. P.	Cameron
Zachry, Margaret	Lubbock

ROSTER OF STUDENTS, SUMMER SCHOOL, 1930

Adams, Charles	Lubbock
Adams, J. W.	Lubbock
Adams, Mrs. J. W.	Lubbock
Adams, Mary Elizabeth	Lubbock
Adcock, Vernon D.	Haskell
Ahlman, Alfred P.	Premont
Ahlman, Mrs. A. P.	Premont
Alexander, C. Fredericka	Cleburne
Alexander, Ruth	Breckenridge
Alldredge, L. H.	Lubbock
Allen, Buford	Lubbock
Allen, Tima	Portales, N. M.
Allison, Cora	Menard
Allison, Norine	Menard
Allison, Roger	Brownwood
Alston, Louise	Tatum, N. M.
Alsup, Adel	Abernathy
Altman, Winnie	Lubbock
Amburn, E. E.	Wellington
Ammons, Harold	Lubbock
Anderson, Florence	Stanton, Iowa
Anderson, Louise	O'Donnell
Angle, Mrs. Mae Ivy	Vernon
Armstrong, Ena	Thrifty
Armstrong, E. G.	Whittenburg
Arnett, Annie Bess	Lubbock
Arnett, Mildred	Lubbock
Arnold, Mrs. Ola	Turkey
Arthur, D. C.	Dublin
Arthur, Mrs. D. C.	Dublin
Ashley, Aubrey	Lorenzo
Atchison, C. J.	Lubbock
Atkinson, Alta	Wellington
Atkinson, Vertha	Burnet
Atwood, Mrs. C. P.	Amarillo
Ausmus, Graydon	Lubbock
Bachman, Mariana	Weatherford
Bachman, Mrs. Ray	Weatherford
Bagwell, Robt. E.	Estelline
Bailey, Carl	Estelline
Bailey, Mrs. Elma	Blanket
Bailey, Joseph W.	May
Bailey, Sam	Estelline
Baird, Elizabeth	Vernon
Baisden, Mrs. Vida Mae	Lubbock
Baker, Adria	Lorenzo
Baker, Dora	Dimmitt
Baker, Dorothy	Lubbock
Baker, Evelyn	Lamesa
Ballenger, Felix	Lubbock
Ballenger, Mrs. Josephine	Lubbock
Barber, Willie Mae	San Angelo
Bardwell, Mary Lee	Lubbock

Barker, Marie	Lubbock
Barnard, Berlin	Elida, N. M.
Barnett, Beulah	Quanah
Bartlett, Hilma	Lubbock
Bartlett, Wilma	Lubbock
Baskin, Margaret	Lubbock
Bass, Mrs. T. H.	Mt. Vernon
Bates, Louise	Lubbock
Baze, Vadabel	Lubbock
Beall, Katherine Powell	Lubbock
Beard, Girdy Pearl	Ruie
Beard, Haskell	Lubbock
Beard, Stella	Lubbock
Bearden, Lester	Lamesa
Bearden, Mrs. Lester	Lamesa
Bearden, Mrs. Pearl	Ackerly
Bearden, Wendell	Lamesa
Beasley, Mary Elsie	Ennis
Beauchamp, Frank	Turkey
Beaver, Leo H.	Fluvanna
Bell, Will Alf	Brownfield
Bell, Lennon G.	Clovis, N. M.
Benefield, Mrs. Pauline	Lubbock
Benefield, S. L.	Brownfield
Bennett, Anna Lou	Arlington
Bennett, Mrs. J. W.	Lubbock
Bentley, Homer D.	Shallowater
Berry, Alpha	Seymour
Berry, Elizabeth	Kerens
Berry, Mrs. Velma W.	Lubbock
Bickham, Chas.	Lubbock
Bickley, Annie Fern	Lubbock
Bickley, Cecil	Lubbock
Biggers, Audine	Bellview, N. M.
Bilbo, Bessie Mae	Robert Lee
Birdsong, Beryl	Greenville
Bishop, Aubrey	Wingate
Black, Crawford H.	Lubbock
Blackstock, Lyman L.	Brownfield
Blackstock, Mamie	Brownfield
Blackwell, Emzy	Brownfield
Blake, Elmer	Gainesville
Blanton, Ella Mae	Ralls
Blanton, Guy C.	Canyon
Blanton, Jessie	Tolar
Bledsoe, Maude	Clarendon
Blocker, Horace	Stanton
Blocker, Mrs. Noma	Stanton
Bludworth, Mrs. Lucille	Lubbock
Blythe, Helen	Kaufman
Bobo, Clarence	Paducah
Boggs, Donald R.	Lubbock
Bohner, Mrs. Viola	Rochelle
Boles, Mrs. B. L.	Lubbock
Boles, F. O.	Littlefield
Bond, Richard	Waurika, Okla.

Boone, Mildred	Lubbock
Boozer, Miss Varina	Lubbock
Bostick, Albert	Lengleville
Bowlin, H. C.	Lubbock
Bowlin, Lucille	Lubbock
Boyd, Mrs. A. K.	Sudan
Boyd, A. N.	Gustine
Boyd, Lucy Mae	Fort Worth
Boyd, Ouida C.	Gustine
Boyd, V. E., Mrs.	Abilene
Boyd, V. E.	Abilene
Boyles, D. O.	Sudan
Bradshaw, Grace	Lubbock
Bradshaw, Ruth	Lubbock
Bralley, J. C.	Tulia
Brannen, Ernestine	Aspermont
Brewer, Carrie Lee	Draw
Brewer, Vernon	Littlefield
Brinker, Mrs. D. P.	Lubbock
Bristow, Jessie Ree	Stanton
Brock, Jewell	Seminole
Broderick, J. W.	Waco
Brooks, Mrs. Sallie	Big Spring
Brothers, Orville	Lubbock
Brown, Dorothy	Cameron, N. M.
Brown, Dovie	Shallowater
Brown, Ethel	Slaton
Brown, Leona Mae	Lubbock
Brown, Louis N.	Littlefield
Brown, Nellie Lee	Quitaque
Brown, Nettie Faye	Lubbock
Brown, Robert E.	Cisco
Brown, Viola	Brownfield
Browning, Brooks	Pride
Browning, Buford	Fluvanna
Bryant, Vivian	Lubbock
Buck, Weneva	Crosbyton
Buie, Jas. M.	Fort Worth
Bullard, Gladys	Snyder
Bullington, F. L.	Wellington
Bullington, Leona	Ropesville
Bullington, Roy	Munday
Bumpass, Faye L.	Lubbock
Burckhardt, Bland	Tahoka
Burkett, Jno. W.	Floydada
Burleson, Gertrude	Anton
Burroughs, Orval	Lubbock
Burns, Mrs. Ruby	Lubbock
Burrus, Kate	Abilene
Butler, Gladys	Lubbock
Butler, Marie	Gatesville
Butts, Hubert	Quanah
Byrd, Ardath	Colorado
Byrd, Harvey	Grosvenor
Byrd, Leonard	Quinlan

Cade, Grace	Chandler
Cain, Earl H.	Yoakum
Caldwell, Bill	Bonham
Caldwell, Edrie	Quanah
Caldwell, Mrs. J. B.	Slaton
Caldwell, James B.	Slaton
Callan, Cham	Fort Worth
Cammack, Grace	Matador
Campbell, Alice	Birome
Campbell, Audrey	Lubbock
Campbell, Beatrice	Estelline
Campbell, Bessie	Lubbock
Campbell, Holycon	Lubbock
Campbell, Lula	Lubbock
Campbell, Milton L.	Buda
Campbell, R. Trent	Lubbock
Campbell, Virginia	Birome
Cantrell, Mae	Carlton
Cappleman, Edgar N.	Honey Grove
Cargile, Mrs. Laura	Abilene
Cargile, Lee	Polar
Cargile, Wm. J.	Polar
Carmack, Shelburn	Konnarick, Va.
Carmichael, Carlton	Lubbock
Carmichael, Gladys	Henrietta
Carrell, W. T.	Lamesa
Carsey, Mrs. Lucile	Dallas
Carsey, W. Arnold	Dallas
Carson, Sarah E.	Stamford
Carter, Dick	Plainview
Cary, Iva	Pampa
Casey, Marie	Snyder
Cassel, Lorene	Lubbock
Catching, Ruby	Slaton
Cathey, Hazel	Lubbock
Caughran, Alice	Munday
Cauthen, Sam	Clarendon
Caywood, Flossie	Lubbock
Chandler, Bonita	Lubbock
Chapman, Mary Edna	Plainview
Chatham, Sam	Idalou
Chenowith, Elizabeth	Panhandle
Chesney, Johnny	Colorado
Chesser, Bristol	Stanton
Cheves, Claude H.	Shamrock
Childress, O. R.	Archer City
Childress, Mrs. O. R.	Granbury
Childs, Ruth	Timpson
Christman, Edna	Arlington
Clark, F. M.	Lubbock
Clark, G. Conrad	Megargel
Clark, Lawrence	Idalou
Clemens, Duella	Shamrock
Clemons, H. P.	Goodnight
Cole, Clarence A.	Valera
Cole, Pauline	Lubbock

Coles, Ewell	Colorado
Coles, Mrs. Jas. E.	Loraine
Collie, Ruby	Jermyn
Collier, Mrs. Gladys M.	Spur
Collier, Margie	Stanton
Collins, Comer	Rotan
Collins, Johnanna	Roswell, N. M.
Collins, Lucille	Amherst
Coltharp, Faye	Slaton
Conklin, Ellen	San Benito
Connell, Faye	Lubbock
Conner, Jas. P.	Lubbock
Conway, Thos. F.	Amarillo
Cook, Bonnie Lee	Lubbock
Cook, Clinton	Post
Cook, Katie Lou	Lubbock
Cook, Lydia	Henrietta
Cook, Perry T.	De Leon
Cook, Ruth Forbess	Lubbock
Cook, Tressie	Draw
Coon, Helen J.	Dallas
Cooner, Jerene	Knox City
Copeland, Monroe	Graham
Couch, Imogene	Comanche
Couch, Willie	Oklahoma
Cowan, Mrs. C. A.	Big Spring
Cowan, Cleo	Lorenzo
Cowan, Thelma	Bowie
Cowden, R. Paul	Oneonta, Ala.
Cox, Leah	Lubbock
Cowling, Allye Bell	Ropesville
Cox, Mrs. Tom Bates	Lubbock
Craig, R. L.	Marshall
Crain, H. M., Jr.	Lubbock
Crain, Mary Lou	Floydada
Craven, Mrs. L. C.	Lubbock
Cravens, Viola	Childress
Crawford, Herschel	Slaton
Crews, Elizabeth	Lubbock
Criswell, Delmar R.	Buckholts
Croslin, Lottie	Lubbock
Croslin, Lloyd	Lubbock
Cross, Leta Alyce	Lubbock
Crutchfield, Carl	Lovington, N. M.
Culp, Ray	Pearl
Dallis, Gus	Lubbock
Dancy, Wendell	Brownsville
Darden, Chloe	Jayton
Davies, Nina Opal	Lubbock
Davis, A. C.	Glen Rose
Davis, Dewey	Seminole
Davis, Garland	Teague
Davis, Ina Ruth	Lubbock
Davis, Otis	Sterling City
Davis, O. K.	Floydada

Davis, Ross	Lubbock
Davis, Sam H.	Jermyn
Davis, Vera	Lubbock
Dayton, Ora Ola	Valley View
Dean, Bernice	Lubbock
Dean, Cecil	Lamesa
Dean, L. Bernard	Lubbock
Dean, Horace	Dawson
Dean, Nora	Lamesa
Dean, Ruby	Lubbock
Deaton, Ruby	Gordon
Delaney, Ruby	Lubbock
Denham, Loula	Lubbock
Dennis, E. J.	Grady, N. M.
Dennis, Leonard	Graham
Dennis, Loree	Lubbock
Denton, Margaret Jo	Knox City
DeShazo, Herbert	Lubbock
DeWald, Anna Jo	Lubbock
Dill, Paul	Henrietta
Dillard, Jewell	Andrews
Dillon, Joe Earl	Lubbock
Dison, Everitt	Canyon
Dison, Roscoe	Canyon
Dixon, Carrie	Bellevue
Dominy, Jas. F.	Paducah
Donelson, Mozelle	Lubbock
Donnell, Sidney	Lubbock
Donnelly, Adelaide	Dallas
Doose, C. A.	Ballinger
Drake, George Lee	Lubbock
Drake, L. Clyde	Lubbock
Drexel, Mrs. B. H.	Lubbock
Dunham, Jim M.	Weslaco
Dunlap, Winnie Lee	Sudan
Dunlap, W. R.	Lorenzo
Dunlop, Margaret R.	Lubbock
Dunn, Raymond E.	Slaton
Dyer, J. R.	Lubbock
Dyer, Ruby	Lubbock
Easterling, Artie C.	Corpus Christi
Edgar, C. B.	Levelland
Edwards, Ethy Lou	Lubbock
Edwards, Jewell E.	Paris
Edwards, Lucile	Southland
Ehresman, Jessie	Kress
Eklund, Lillian	Slaton
Elder, Otis	Hale Center
Elkin, Lula M.	Midland
Elkins, Campbell H.	Lubbock
Elkins, Clyde	Lubbock
Ellis, A. R.	Levelland
Ellis, Mrs. Ethel	Slaton
Ellis, O. P.	Slaton
England, Helen	Hillsboro

English, Mrs. Ance M.	Lubbock
Erwin, Mary Virginia	Bakersfield, Calif.
Etter, Mrs. Ova May	Lubbock
Eudlay, Sheldon	Fort Worth
Evans, Mrs. A. W.	Lubbock
Evans, Anna Cecil	Lubbock
Evans, Marion L.	Lubbock
Evans, W. P.	Plainview
Evans, Mrs. W. P.	Plainview
Ewen, Olive Ruth	Memphis
Fairchild, Everett D.	Plainview
Fann, Blanche	Lubbock
Fanning, Jas. R.	Grady, N. M.
Faubion, Bernard W.	Spicewood
Faubion, C. Fowler	Spicewood
Feazel, Mary Ann	Lorenzo
Fedric, A. O.	Clovis, N. M.
Fickas, W. R., Jr.	Lubbock
Fincher, Edrena	Lubbock
Flake, Elton	Plainview
Fletcher, Mrs. Ernest	Plainview
Ford, Dimple	Lubbock
Ford, Roxana Ruth	Lubbock
Fort, Addie Belle	Lubbock
Foster, Ada	Lockney
Foster, A. Maye	Lockney
Foster, Georgia Mae	Lubbock
Fowler, Owen Murle	Lubbock
Franklin, Gladys	Rule
Franklin, Grace	Sidney
Franklin, Homer	Lubbock
Franklin, Mrs. Lucile	Happy
Franklin, Reba May	Colorado
Franks, Grace	Brownfield
Frazier, Ava	Farmersville
Frazier, Harold	Farmersville
Freeland, E. Y.	Lubbock
Freeman, R. B.	Littlefield
Freeman, Naomi	Littlefield
Friend, Ruth	Lubbock
Frnka, Irene	Tarwood
Fry, Amy	Anson
Fry, Ruth	Anson
Fryar, Louise	Lubbock
Fuller, Jessie	O'Donnell
Fuller, Mayme Lou	Wellington
Gable, Loraine	Lubbock
Gainer, Arch	Rochelle
Gaines, Amos	Gustine
Gaines, Nola Marie	Gustine
Galbraith, Martha L.	Arlington
Galbraith, Virginia	Arlington
Galloway, Imogene	Tahoka
Gammill, Rankin	Lubbock

Garner, Claudia	Stanton
Garrison, Mrs. Isabel	Lubbock
Garrison, Vada Mae	Lubbock
Gee, J. T.	Carbon
Gentry, Lillie	Carbon
Gibbs, Clifford	Loco, Okla.
Gibbs, Myrtle	Loco, Okla.
Gilbert, Gladys	Lubbock
Gilkerson, Voncile	Lubbock
Gilliam, Hughes	Haskell
Girand, Alma	Lubbock
Gist, Morgan	Colorado
Gleason, Dorothy	Tucumcari, N. M.
Glenn, Maurice T.	Stamford
Goforth, Flora	Lubbock
Golden, Carl	Snyder
Golden, Roy	Snyder
Goldston, Margaret E.	Clarendon
Gooch, Robert H.	Lubbock
Goodloe, Nell	Lamesa
Goolsby, Annie L.	Lubbock
Gordon, Imogene	Lubbock
Gordon, Wilson H.	Amarillo
Gotcher, Wilma	Ropesville
Grant, Maude	Belcherville
Grantham, Rowena	Lubbock
Graston, Mary Elene	Wolfforth
Graves, Eileen	Lubbock
Gray, Hal	Wellington
Green, Clovis	Portales, N. M.
Green, Jewel	Lubbock
Green, J. Logan	Tokio
Greene, Lola Beth	Dickens
Greene, Louise	Levelland
Greer, Georgia Belle	Lubbock
Greer, Milton	Lubbock
Greer, Wm. Arthur	Lubbock
Gregg, Bernard	Fort Worth
Gregory, Mary Ruth	Poolville
Gressett, Winnie Faye	Westbrook
Gribble, Opal	Harrold
Griffin, Estelle	Lubbock
Griffith, Blanche	Denton
Griffith, Nova	Denton
Griffith, Homer E.	Lubbock
Griggs, Joseph R.	Fort Worth
Grinstead, Ruth	Rochester
Grissom, P. B.	Roaring Springs
Groves, R. T.	Lubbock
Guess, Mary	Bogata
Gulledge, Mrs. Mary	Lubbock
Guthrie, Jno. S.	Seymour
Hackney, Glenn T.	Sulphur Springs
Halbert, Jo.	Saragosa
Hale, J. E.	Granbury

Hale, Virginia	Lubbock
Haliburton, Francis W.	Electra
Hall, Ewell	Memphis
Hall, Gladys	Littlefield
Hall, Leslie	Stanton
Hall, Mary Louise	Ancho, N. M.
Hall, Myrtle	Stratford
Hall, Vera F.	Slaton
Ham, Eddie	Texon
Hamilton, Doyle	Huckabay
Hamilton, Inez	Huckabay
Hamilton, Marguerite	Waxahachie
Hammons, Anna	Lubbock
Hampton, Frances Fay	Lubbock
Hampton, Willie	Olton
Hancock, Mrs. Addie	Jayton
Hancock, Beulah	Tahoka
Hancock, Cleo	Dublin
Hancock, Ervin E.	Tahoka
Hankins, Flake	Lubbock
Hardee, Frances	Quitman, Miss.
Hardesty, Corene	Lamesa
Hardesty, J. E.	Lamesa
Hardy, Grace	Bonham
Hardy, Weldon	Bonham
Hardy, Paul	Bonham
Hargrove, Pauline	Colorado
Hargus, June B.	Eastland
Harlan, Oleta	Turkey
Harman, Audrey	Lubbock
Harmonson, Mrs. Van	Chandler
Harper, Enos W.	Wellington
Harper, Mrs. Enos W.	Wellington
Harper, Geneva	Pampa
Harral, Charles	Fort Stockton
Harrel, James	Chapel
Harris, Aline	Seymour
Harris, Lillie Jane	Trent
Harris, Leola	Sheperville
Harris, Mildred	Lubbock
Harrison, Pearl	Roswell, N. M.
Harrison, Ruby	Post
Harrison, Uva Loyce	Post
Hart, Hugh	Tahoka
Hartgraves, Guy C.	Ireland
Harvey, Eunice	Quanah
Harwell, Juanita	Memphis
Hatton, G. T.	Abilene
Hatton, Mrs. G. T.	McKinney
Havis, Leon	Roaring Springs
Hawthorne, Willie M.	Lubbock
Hayley, Mildred	Bronte
Haymes, T. W.	Lubbock
Haynes, Guy	Granger
Hayes, Lelless M.	Lubbock
Hazel, Lanoy	Spur

Headstream, Clyde	Tahoka
Headstream, Mae Bell	Roby
Headstream, Ray	Roby
Heard, M. E.	Lubbock
Hearnell, Ruth	Lubbock
Hegg, Charlotte	Decorah, Iowa
Heidel, Cleo	Lovington, N. M.
Henderson, Margaret M.	Lubbock
Henderson, Maurine	Lubbock
Henderson, Syd	Tahoka
Hendrick, Thomas G.	Lorenzo
Henry, V. J.	Knox City
Herring, E. W.	Mt. Calm
Hervey, Margaret	Rice
Hicks, T. B.	Hermleigh
Hill, Hubert C.	Erick, Okla.
Hill, Loydell	Lubbock
Hill, Ruby	Lubbock
Hines, Mrs. Myra	Lubbock
Hitchcock, Jesse R.	Knox City
Hitchcock, Mrs. Odell	Knox City
Hitt, Mable Irene	Lubbock
Hodge, Alma	Stephenville
Holden, Carrie Louise	Clyde
Holden, Joyce Ellis	Lubbock
Holden, Tom C.	Tuscola
Holden, Mrs. W. C.	Lubbock
Holliday, Alton W.	Nashville, Ark.
Holmes, Mrs. L. S.	Lubbock
Holt, Mrs. J. L.	Lubbock
Holt, Mildred	Lubbock
Honey, Glenys	Lubbock
Hooten, Mrs. Emma	Shallowater
Hooten, Mrs. Maude L.	Woodson
Hooten, Richard W.	Lubbock
Hooten, Roy L.	Shallowater
Hope, S. H.	Lubbock
Hopkins, Howard F.	Ladonia
Hopping, Lillian	Lubbock
Horne, O. C.	Lubbock
Horstmann, A. L.	Buckholts
Horstmann, Hugo	Buckholts
Horton, Barbara	Hale Center
Houston, Lucile	Lubbock
Howard, Marshall	Smyer
Howell, Mrs. J. T.	Lubbock
Howell, Mable	Knox City
Hudson, Basil	Westbrook
Hudson, James	Hermleigh
Hudson, Laska Joy	Colorado
Huff, Jewell	O'Donnell
Huff, Marcus T.	Lubbock
Hufstедler, Virginia	Lubbock
Hughett, Pauline	Lubbock
Humphries, Daisimay	Lubbock
Humphries, Mrs. J. A.	Lubbock

Hunt, Mrs. Fredda S.	Lubbock
Hunter, Irene	Brownfield
Hunter, M. C.	Plainview
Hutchinson, Joe C.	Sulphur Springs
Igo, Ina	Ralls
Ingham, Mary W.	Conway
Ingram, Eloise	Nocona
Ingram, Faye	Lubbock
Ingram, George	Lubbock
Ingram, Ieona	Lubbock
Inman, Maggie Lee	Hale Center
Jackson, Clarence	Brownsboro
Jackson, Cleo Yvonne	Lubbock
Jackson, Mrs. Floyd	Hurlwood
Jackson, Frank	Nocona
Jackson, H. A.	Nocona
Jackson, Helen	Lubbock
Jackson, H. J.	Lubbock
Jackson, Mineus	Wellington
Jackson, Stella B.	Lubbock
Jackson, Virgil	Maverick
James, C. B.	Tahoka
James, Clyde W.	Lubbock
James, Gordon	Lubbock
James, Mrs. Jessie W.	Lubbock
James, Marion	Lubbock
James, Maude R.	Tahoka
James, Philip	Lubbock
James, Virginia	Lubbock
Jameson, Catherine	Lubbock
Jay, Rebecca Marion	Lubbock
Jarnigan, William	Graham
Jay, Walter	Lubbock
Jennings, Evelyn	Lubbock
Jerden, Mrs. Birdie	Lubbock
Jewell, Opal Hollis	Grady, N. M.
Jenkins, Andrew B.	Sudan
Jenkins, Reba	Sudan
Jobe, Marguerite	Harwood
Johnson, Belma Lee	Levelland
Johnson, Mrs. Amy	Big Spring
Johnson, Hallie Mae	Crowell
Johnson, Lola Belle	Tahoka
Johnson, Mabel M.	Kermit
Johnson, Mrs. Nancy S.	Lubbock
Johnson, Susie	Crowell
Johnston, J. B.	Lubbock
Jones, Allyne	Seagraves
Jones, Mrs. Alpha	Waldrop
Jones, Blanche	Clyde
Jones, Billie	Abernathy
Jones, Mrs. Earle	Penelope
Jones, Ethe	Memphis
Jones, Flora	Clyde

Jones, Evelyn O.	Belton
Jones, Helen M.	Lubbock
Jones, Mary Evelyn	Crowell
Jones, Mary Watson	Silverton
Jones, Mildred	Haskell
Jones, Mattie M.	Clyde
Jones, Ruth, B.	Olney
Jones, Ruth E.	Abernathy
Jones, Truman	Poolville
Jones, Vernon	Mullin
Jones, W. B.	Littlefield
Kane, Wilda	Moran
Karnes, Lois	Lubbock
Kayes, Norma Lee	Texico, N. M.
Keaster, Vivian	Lubbock
Keith, Celeta	Arlington
Kelley, Anna Lou	Petersburg
Kelley, Oma Mae	Hawley
Kemp, Frazier E.	McCauley
Kendrick, Johnnie	Amarillo
Kennedy, Ruby	Lamesa
Kennedy, Mrs. Ruth	Lamesa
Kenner, Orvel	Lubbock
Kenner, Ruby	Lubbock
Kerley, Fay	Austin
Kerry, E. E.	Lubbock
Kilgore, Mrs. Belle	Lubbock
Killian, Marguerite	Slaton
Killian, Mrs. Oscar	Slaton
Killough, Thelma	Littlefield
Kimbrow, Albert M.	Lubbock
Kimbrough, Ernestine	Athens
Kindrick, Thelma	Rotan
King, A. L.	Lubbock
Kirksey, Milton	Lorenzo
Kiser, Mary Alice	Olton
Knight, Marguerite	Lubbock
Knight, Martha E.	Roswell, N. M.
Knipp, Dorothy	Lubbock
Knoll, B. W.	Dexter, N. M.
Knoll, Mrs. Minnie W.	Levelland
Knowles, Sidney	Jonesboro
Koonsman, Mrs. Sam	Dickens
Kral, Anna	Roby
Kral, Edith	Roby
Kral, Thomas	Roby
Lass, O. J.	Brookshire
Lacy, Mrs. Dorothy B.	Lubbock
Lail, Chas. P.	Lubbock
Lam, Kathleen	Sudan
Lamance, B. R., Jr.	Gorman
Lane, Clara Frances	Memphis
Lane, Ethel	Mt. Calm
Laney, Jewell	McAdoo

Lane, H. M.	Clarendon
Lane, Mary	Roswell, N. M.
Lang, Joe W.	Lockney
Langford, Geo.	Frankell
Latham, Velma	Woodson
Lawler, Mattie Lou	Athens
Lawley, Lola	Big Spring
Lawrence, Hilda	Lubbock
Lawson, Mrs. Alton	Afton
Lawson, Floyd M.	Grandfield, Okla.
Leach, Henry R.	Ballinger
Leach, Price	Plainview
Lee, Hazel	Lubbock
Lee, Josie	Lubbock
Lee, T. B.	Idalou
Lehrer, Charles	Abilene
Lewis, Mrs. Bertha J.	Wheeler
Lewis, Byrd R.	Paducah
Lewis, Edward P.	Flomot
Lewis, Quanah	Lubbock
Lewis, Mrs. Sarah Maude	Lubbock
Ligon, Andrew J.	Wichita Falls
Ligon, Arvy F.	Wichita Falls
Lilljedahl, Mary	Lubbock
Lilly, Eula	Devine
Lilly, Faye	Devine
Lilly, Warren R.	Devine
Lindley, Mrs. D. T.	Lubbock
Lindley, Mrs. Finis Cook	De Leon
Lindley, Roy C.	Cisco
Lindsey, Kathryn	Lubbock
Link, Ruth	Tahoka
Linn, Dollie Mae	Lubbock
Linn, Lester C.	Memphis
Linn, Velma	Petersburg
Liston, Lovic H.	Ringgold
Littlefield, Alyce	Santo
Lockhart, Jess	Lubbock
Logan, Loyce	Lubbock
Logan, Zula Mae	Lubbock
Lohn, Ruth	Waldrip
Loper, Floy	Corsicana
Loper, Joyce	Corsicana
Loter, Lena	Wellington
Lovell, Iris B.	Dickens
Love, S. T.	Lubbock
Lowrey, E. L.	Lubbock
Luce, Stephen B.	Lubbock
Luna, Ircillia	Plains
Lundell, Helen	Lubbock
Lupton, Elizabeth	Lubbock
Lupton, Louise	Littlefield
Lupton, Mrs. W. P.	Littlefield
Macon, Opal	Ralls
Maddox, F. M.	Lubbock

Magee, Lawrence	Lubbock
Magee, Mary Jane	Levelland
Mallard, J. W.	Lubbock
Mangum, Lois	Lubbock
Marcom, O. W.	Levelland
Marcom, Mrs. O. W.	Levelland
Marcom, Preston J.	Levelland
Marshall, Raymond	Lubbock
Melton, S. M.	Cureo
Martin, Charles	Weatherford
Martin, D. F.	Red Springs
Martin, Mrs. Edwin D.	Houston
Martin, Edwin D.	Houston
Martin, Emma Jean	Lubbock
Martin, Franklin Y.	Lamesa
Martin, Johnnie	Weatherford
Martin, Leda	Tahoka
Martin, L. L.	Meadow
Martin, Thomas C.	Lamesa
Mason, Mary Alice	Jonesboro
Mast, Henrie E.	Lubbock
Mast, John	Lubbock
Matheny, Whitman	Bardwell
Mathis, Kary	Southland
Mathis, Mrs. Kary	Southland
Maxey, Mrs. Lena	Floydada
May, Margaret	McKinney
Meacham, Virginia	Lubbock
Medlock, Inez	Lubbock
Meharg, Miss L. C.	Crosbyton
Meharg, Travis	Gatesville
Melendez, A.	Guatamala, C. A.
Merchant, Mrs. Alma	Lubbock
Merchant, Polly Smith	Amarillo
Michie, Sarah	Lubbock
Middleton, Mary L.	Lubbock
Middleton, Oueda	Lubbock
Mika, Hugo	Ballinger
Millard, Myra	Canadian
Miller, C. C.	Krum
Miller, Mrs. Helen	Krum
Miller, J. E.	Hale Center
Miller, Mayme Lee	Levelland
Miller, Mrs. Lela	Lubbock
Mills, Bonnie	Lubbock
Millsap, Hallie J.	Lamesa
Millsap, Jimmie	Clarendon
Mirike, Mrs. J. D.	Menard
Montague, Jewel	Silverton
Montgomery, Mrs. Jewel	Silverton
Montgomery, Mary Belle	Littlefield
Montgomery, Opal	Lubbock
Montgomery, T. V.	Andrews
Montgomery, Travis W.	Lubbock
Moore, Alma	Tyler
Moore, Jay	Lubbock

Moore, J. R.	Tyler
Moore, Roy Lee	Loop
Mocre, Mrs. Ruth	Brownfield
Moorhouse, Collins	Benjamin
Moorhouse, Frances	Benjamin
Morgan, Mrs. J. O.	Lubbock
Morgan, W. C.	Hereford
Moring, Idell	Huckabay
Horris, Belle	Amherst
Morrison, Mrs. Grady	Lubbock
Morse, Bertha	Trent, S. D.
Moses, Lucille	Ralls
Mozley, Anna Mae	Lubbock
Mullings, Fred	Aiken
Murray, Mrs. G. C.	Sheffield
McAllister, Mrs. Ione	Lubbock
McAlpine, Mrs. Ada D.	Spur
McAthur, Floyd	Spur
McaCrt, Aline	Lubbock
McCarty, Paul J.	Lubbock
McCauley, Mrs. Ethel	Lubbock
McCleary, J. E.	Colorado
McCleskey, Madie L.	Lipan
McClellan, Ione	Brownwood
McClellan, Leona	Lubbock
McClellan, Orene	Lubbock
McCollum, Annette	Gatesville
McConnell, Wm.	Gordonville
McCraw, Rubye	Honey Grove
McCullough, Edward A.	Waco
McDearmon, Ray	Lubbock
McDearmon, Mrs. R.	Lubbock
McDonald, Birdie Lee	Levelland
McDonald, Mrs. Leroy	Floydada
McDonald, T. H.	Canyon
McElyea, Hazel	Farmersville
McFarland, Lora Mae	Friona
McGaughey, J. H.	Lubbock
McGuire, Jane	Lubbock
McGuire, Merlyn	Seymour
McIlhaney, Jesse	Lubbock
McIver, Inez	Lubbock
McKay, Opal	Lamesa
McLendon, Mrs. Beulah	Amarillo
McLendon, J. Arnold	Gilmer
McMurry, Minnie Lee	Slaton
McNabb, Margaret	Stillwater, Okla.
McNeill, Mary Louise	Lubbock
McNutt, John H.	Rogers, Ark.
McQuien, Tillman	Lubbock
McWhorter, Garlan	Woodrow
McWhorter, Odis	Wilson
McWilliams, W. D., Jr.	San Benito

Nash, R. M.	Slaton
Neal, Mrs. Mamie I.	Lubbock
Nelle, Wm. H.	Laredo
Nelson, Eleanor	Lubbock
Nelson, Eloise	Sterling City
Newberry, Cleone	Dickens
Newman, Mrs. Erna M.	Dumont
Newman, Mrs. S. T.	Lubbock
Newman, S. T.	Lubbock
Newman, Verna	Odessa
Newsom, Gladys	Brownfield
Newton, John	Idalou
Newton, Ruth C.	Idalou
Noblack, Mrs. Gus	Lubbock
Nichols, Virgie M.	Lubbock
Nimmo, Gladys	Henrietta
Nimmo, Jack	Henrietta
Nixon, Verna	Lubbock
Noah, Ruth	Lubbock
Noble, Earle	Wichita Falls
Noble, M. E.	Wichita Falls
Noles, Mrs. Alvoy	Rotan
Norman, Mrs. Dick	Lubbock
Nowlin, Mrs. R. H.	Ralls
Nowlin, R. H.	Ralls
O'Dell, Mrs. Jewell T.	Lubbock
O'Dell, Pearl	Quanah
Odom, Alyne	Lubbock
Odom, Robert	Memphis
Olsen, Dorothy	Seymour
Olson, Mrs. Lucile	Christoval
Oliver, R. C.	Big Spring
O'Neal, Chas. F.	Lubbock
O'Neal, H. B.	Tulia
Osborne, Florence	Clyde
Owen, Mrs. Joe H.	Lubbock
Owen, Lewis	Athens
Oyler, Eugene	Moran
Page, Jack T.	Fort Worth
Pair, Carrie	McAdoo
Palmer, Delia	Hornbeck, La.
Palmer, Ethel	Hornbeck, La.
Parker, Bob	Lucille, N. M.
Parker, Hhalia	Lubbock
Parker, Travis	Lubbock
Parks, Edna	Lubbock
Parks, Ora Lee	Munday
Paschell, Inez	Floydada
Patten, Maurine	Ralls
Patterson, Johnnie Mae	Plains
Patterson, Maida Lee	Nevada
Patterson, Nina Mae	Nevada
Payne, Ameral	Lubbock
Payne, Magdalen	Trent

Pederson, M. G.	Clifton
Peebles, H. O.	Kuntze
Peeples, John	Dodsonville
Penuel, Albert L.	Lubbock
Penuel, Mrs. Cynthia A.	Lubbock
Perkins, Dena	Lubbock
Perkins, Lena	Lubbock
Pefers, Gerald H.	Levelland
Pettigrew, Gladys	Justiceburg
Petty, Troy	Jewett
Pevehouse, Mrs. Myrtle	Lubbock
Pfaff, Martha	Gainesville
Pickett, Florence	Lubbock
Pickett, Violetmae	Lubbock
Pierce, Annabel	Anton
Pierce, James	Canyon
Pogue, Mrs. Lubel A.	Burnet
Pointer, W. J.	Mangum, Okla.
Polk, Lucile	Clarendon
Pool, Ila	Hedley
Pool, Juanita	Lubbock
Pool, Phyllis	Lubbock
Porter, Gladys	Lubbock
Porter, Tom	Dickens
Pounds, Davis	Lubbock
Powell, Mrs. Beulah	Lubbock
Powell, John R.	Dumas
Power, Mrs. Mary A.	Lubbock
Powers, Mrs. Ruby A.	Baileyboro
Powers, Warren	Bailey
Preston, Howard	Sudan
Preston, Mary	Tahoka
Price, Mrs. Anne	Lubbock
Price, Christine	Lubbock
Priddy, Mrs. Agnes	Lubbock
Pritchard, Mona	Eastland
Prosser, Mrs. Irma	Lubbock
Puckett, Margaret	Amarillo
Puryear, Lela	Lubbock
Puryear, Raymond	Poolville
Puryear, Mrs. Raymond	Poolville
Putnam, Ira	Baird
Ragle, Eleanor	Lubbock
Randal, Wilburn M.	Amarillo
Randolph, Evelyn	Lubbock
Rankin, Alice	Petersburg
Rankin, Charles G.	Petersburg
Rankin, Louise	Abernathy
Rankin, Mary E.	Petersburg
Rankin, J. M.	Ralls
Rankin, John S.	Petersburg
Rankin, Mrs. Vera	Lubbock
Ranne, Nina	Littlefield
Ratliff, Corene	Lubbock
Ratliff, Murl	Lubbock

Ray, Alice	Troy
Rea, Mrs. Frances G.	Hermleigh
Red, Janice	Wortham
Reed, Mrs. Estelle L.	Muleshoe
Reeves, Cordell	Sweetwater
Reeves, E. P.	Matador
Reeves, E. R.	Lelia Lake
Reeves, Mrs. Leola	Lubbock
Reeves, Verlin	Matador
Reid, Lillian C.	Baileyboro
Rhea, Regina Ree	Lubbock
Rhodes, Boobbie Lee	Lubbock
Richards, Alecia	Fort Worth
Richards, Johnie Bess	Lubbock
Richardson, Orville	Ropesville
Richey, Iva	Spur
Riethmayer, L. C.	Sparenberg
Riley, W. H., Jr.	Coleman
Risinger, Mrs. Thad	Lubbock
Roane, W. E.	Valley View
Robbins, Lydia	Lubbock
Robbins, Ora May	San Antonio
Robbins, Wilma	Lubbock
Robert, Ann	Lubbock
Roberts, G. M.	Lamesa
Roberts, Jas. H.	Lubbock
Roberts, Joe Y.	Crowell
Roberts, Mrs. Lena	Slaton
Roberts, Media Alice	Perryton
Robertson, Mrs. H. B.	Ralls
Robertson, Homer C.	Elmo
Roe, Gertie	Azle
Rogers, Bethel	Lubbock
Rogers, Chas. M.	Amarillo
Rogers, Geo. D.	Portales, N. M.
Rogers, Heldron	Lubbock
Rogers, Velma	Trent
Rogers, Mrs. W. J.	Lamesa
Rogers, W. J.	Spur
Rollins, Doris	Seminole
Rollo, C. J.	Lubbock
Rollo, Jo	Coleman
Rollo, Kenneth	Lubbock
Ross, Arvil, G.	Coolidge
Ross, Mrs. Bertie Y.	Lubbock
Rothrock, Minnie L.	Snyder
Ruhman, J. P.	Ballinger
Rumph, H. H.	Ralls
Runnels, Mildred	Prairie Hill
Rushing, Dorothy	Lubbock
Russ, Mrs. Kate	Forestburg
Russell, C. J.	Water Valley
Russell, Ethel Mae	Lubbock
Rylander, Dorothy	Lubbock
Rylander, Mildred	Lubbock

Sachse, Daisy Lee	Quitaque
Sanders, A. B.	Ralls
Sanders, Mrs. Mollie	Lorenzo
Sanders, O. L.	Lorenzo
Sargent, Jessie B.	Tahoka
Sayer, Mrs. Bess	Lubbock
Sayer, Bonnie Bess	Lubbock
Sayer, Doris D.	Lubbock
Schofield, Albert	Lubbock
Scott, Edward Lee	Georgetown
Scott, Elmore	Levelland
Scott, Mable Claire	Childress
Scott, Ruby	Spur
Scudder, Doris	Graford
Scudder, Mildred	Henrietta
Seale, Allen B.	Eastland
Searls, John P.	Athens
Sears, Mrs. Leslie O.	Lubbock
Self, Mrs. H. B.	Winters
Self, H. B.	Tuscola
Self, Rudolph	Albion, Okla.
Sessions, H. A.	Crosbyton
Sessle, Leonard Edwin	Abernathy
Shaffer, Clifford	Sudan
Shaffer, Mable	Sudan
Shannon, Carrie	Levelland
Shannon, Hugh	Levelland
Shaw, Arvil B.	Lubbock
Shaw, Mrs. Arvil B.	Lubbock
Shaw, Ethel L.	San Antonio
Shelly, Mary Beth	Lubbock
Shields, Edith	Vega
Shelby, Juanita	Lubbock
Shelton, M. L.	Alpine
Sheridan, Beulah	Matador
Sherrill, Clarice	Seagraves
Showalter, Ray L.	Lubbock
Shulkey, Mrs. B. C.	Olney
Shulkey, B. C.	Decatur
Sides, Leola	Lubbock
Sides, Mildred	Ballinger
Simkins, Jewell	Ralls
Simmons, Allyn	Lubbock
Simmons, Verma	Stephenville
Simpson, Lida Faye	Lubbock
Simpson, Vida Maye	Lubbock
Singley, Olentha	Lubbock
Skeen, Maude Dee	Silverton
Sloman, Willie	Vega
Slover, Edna Mae	Lubbock
Smallin, Dow	Abernathy
Smallwood, Virginia	Lubbock
Smelser, Francis	Lubbock
Smith, Mrs. Alice L.	Lubbock
Smith, Mrs. Ben V.	Lubbock
Smith, Clarence	Palo Pinto

Smith, Clarice	Moran
Smith, Elizabeth	Whitewright
Smith, Mrs. E. Simmons	Lorenzo
Smith, Elton	Longworth
Smith, Esther	Lubbock
Smith, Nora Leona	Throckmorton
Smith, J. Russell	Walnut Springs
Smith, Macon	Brownsville
Smith, Margie Vivian	Longworth
Smith, Ruby	Dublin
Smith, Thelma	Gorman
Snider, Viola	Crosbyton
Snyder, Anne	Lubbock
Sorrells, Mrs. Mattie	Colorado
Southall, O. C.	Seminole
Sowder, E. L.	Lubbock
Sowder, Mrs. Eppie	Lubbock
Sowell, Theresa L.	Lubbock
Spacek, Edwin A.	Granger
Sparkman, Owen	Como
Speck, Mrs. Arzella	Lubbock
Speer, Mrs. Edith L.	Morse
Speer, J. B.	Dickens
Speer, J. E.	Flomot
Speer, Mildred	Lubbock
Spencer, Martha	Lubbock
Spencer, Mrs. Percy	Lubbock
Spivey, Robert C.	Jacksboro
Spring, Frank A.	Friona
Spykes, Hazel	Hermleigh
Stallings, Lois	Slaton
Standefor, Gertrude	Meridian
Stark, Florence	Lubbock
Stegall, Marguerite	Seymour
Stelzer, Olive	Muenster
Stephens, Mrs. C. G.	Vera
Stephens, Dorothy	Lubbock
Stephens, Geo. L., Jr.	Donnell
Stephens, M. F.	San Antonio
Stephens, Olene	O'Donnell
Stewart, Evelynne	Lubbock
Stewart, O. Mitchell	Lubbock
Stobaugh, Illene W.	Lorenzo
Stockton, LaVerne	Rotan
Stokes, Erma	Lubbock
Stooksberry, Mrs. Willie P.	San Angelo
Strickel, Laurine	Lubbock
Stringer, A. L.	Lubbock
Stultz, Carl	Lubbock
Summerhill, J. A.	Ropesville
Sumner, Sylvan	Idalou
Sumner, Mrs. Pauline	Idalou
Swafford, Mrs. Minnie Ray	Rio Grande
Swafford, R. P.	Rio Grande
Swepston, Pauline	Tulia

Tabor, Elgin L.	Causey, N. M.
Talbott, F. B.	Sudan
Tarrance, Leta	Lubbock
Tartar, Alice	Chillicothe
Tatom, Melba Mae	Lubbock
Taylor, Alex	Childress
Taylor, Mrs. Alex	Childress
Taylor, Elliott	Lubbock
Taylor, Mrs. H. R.	Tahoka
Taylor, Mrs. Louis H.	Brownwood
Taylor, Louis H.	Brownwood
Taylor, Otis, Jr.	Lubbock
Teague, Alice C.	Lubbock
Teague, Gracie F.	Lubbock
Teague, Joyce	Lubbock
Teal, Vera	Lubbock
Temple, Winnie	Lorenzo
Terry, Mrs. Eula Mae	Plainview
Thannish, Clarice	Spur
Thomas, Bonnie	Lubbock
Thomas, W. S.	Happy
Thomasson, Mrs. W. V.	Clarendon
Thomasson, W. V.	Clarendon
Thompson, Buster	Rule
Thompson, C. J.	Lubbock
Thompson, Grace	Lubbock
Thompson, Lola	Lubbock
Thompson, Pauline	Lubbock
Thomson, Gordon	Ballinger
Thorp, Ada May	Post
Thurman, Stella K.	Hamlin
Tiller, Mabel	Malta
Tillotson, Sally Ann	Aspermont
Tilory, Elitabel	Lubbock
Timmons, Arminda J.	Lubbock
Tinney, Willis	Sunset
Tittle, Clyde	Hillsboro
Tomme, Eustace	Lubbock
Townsend, Lillian	Rule
Trachta, Anna Marie	Muenster
Trammel, Dahlia	Lubbock
Trammel, Pauline	Lubbock
Treadaway, Gordon	Lamesa
Treadaway, Mozelle	Brownfield
Tredway, W. E.	O'Donnell
Trigg, Nina	Lubbock
Trott, L. L.	Loraine
Trotter, Marie	Lubbock
Tucker, Woods	Ovalo
Tudor, Nan	Slaton
Tunnell, Amoret	Duffan
Tunnell, Fleda	Duffan
Tunnell, Lenore M.	Lubbock
Turner, Earl	Lubbock
Turner, Rowena	Lubbock
Turney, Irl H.	Claude

Turney, J. C.	Lubbock
Tyer, Ruth	Lubbock
Tyson, Elizabeth	Cross Plains
Underwood, S. Denton	Hale Center
Vallance, Mrs. Minnie	Lubbock
Vannoy, Maurice P.	Lubbock
Vannerson, Jim	Tulia
Varley, Wallace	Collinsville
Varley, Wayne	Collinsville
Varnell, Ralph	Barry
Vaught, Jane	Slaton
Vermillion, Irene	Bowie
Vinzant, W. G.	Lamesa
Vinzant, Dennis	Lamesa
Vinzant, Mrs. W. G.	Lamesa
Vise, Grace	Kilgore
Voss, Hazel	Altus, Okla.
Voss, Neva	Altus, Okla.
Vowell, Lois	Robert Lee
Waddill, Peyton	Lubbock
Wagner, Charlie	Lubbock
Walden, Vada	Lubbock
Walker, Franklin	Slaton
Walker, Helen	Hale Center
Walker, Jessie A.	Lubbock
Walker, Mrs. Laura	Levelland
Walker, Lewis	Lubbock
Walkup, Belva	Acme
Wallace, C. A.	Amarillo
Waller, Ray	Pickton
Walls, Mrs. Margaret	Slaton
Ward, Frank	Lubbock
Wardell, Winnifred A.	Avery
Warren, J. Irvin	San Angelo
Warren, Mrs. J. I.	San Angelo
Wartes, Blanche	Petersburg
Waters, G. Dallas	McLean
Watwins, Vivian L.	Loranzo
Watson, Dimple	Lubbock
Watson, Mrs. Pearl	Bentonville, Ark.
Watson, Johnnie	Hermleigh
Watson, Tom V.	Lubbock
Weathers, Fredice	Abilene
Webb, H. P.	Olton
Webb, Robert M.	Lubbock
Webb, Mrs. R. W.	Lubbock
Wells, Mrs. B. C.	Lubbock
West, Annie M.	Wolfforth
West, Cornelia	Wolfforth
West, R. S., Jr.	Wolfforth
West, S. G.	Benjamin
Westbrook, Mary Hope	Cullowhee, N. C.
Wharton, Leona	Lubbock

Whaley, Irene P.	Lubbock
Wheeler, Edna	Lamesa
White, Mrs. A. O.	Spur
White, Mrs. Lloyd	Lubbock
White, Mrs. Lola	Aberdeen
White, Mildred	Farmersville
White, Robt. S.	Amarillo
White, Sam	Lubbock
White, Taylor	Tahoka
Whitlock, Edith	Lubbock
Whitlock, Eldora	Lubbock
Whitmore, Jerome R.	Steerling City
Wiggins, Alpha	Lubbock
Wilhite, Genelle	Lubbock
Wilhite, Mrs. J. G.	Slaton
Wilkins, C. A.	Earth
Wilkins, Mrs. C. A.	Earth
Wilkins, Mrs. D. G.	Pioneer
Wilkins, Lily W.	Olton
Willard, Irene	Ralls
Williams, James P.	Lubbock
Williamson, J. C.	Lubbock
Williamson, Lois	Lubbock
Williamson, Silas F.	Lubbock
Willingham, Mrs. C. E.	Lubbock
Willingham, Carl	Lubbock
Willingham, Mrs. C. H.	Lubbock
Willis, Bonnie	Wellington
Willis, Louise	Wellington
Willis, Wade S.	San Angelo
Wills, Hood	Snyder
Wilson, Jasper Lewis	Troup
Wilson, Leonard	Poolville
Wilson, Wm. L., Jr.	Fort Worth
Wisdom, Ernest	Claude
Witt, Buena V.	Whitesboro
Will, I. R.	Post
Witt, Paul T.	Texarkana
Wolfe, Mrs. Tom	Penelope
Wolffarth, Louise	Lubbock
Womack, Sam	Colorado
Wood, Arneane	Mexia
Wood, Kathleen	Childress
Wood, Mary	Childress
Wood, Mrs. N. E.	Tahoka
Wood, N. E.	Hughes Springs
Wood, Rose M.	Tahoka
Wood, Mrs. W. C.	Lubbock
Woods, Lolita	Blanket
Woody, Geneva	Crosbyton
Woolan, M. O.	Smyer
Woolridge, Chas.	Plainview
Woolridge, Floyd	Plainview
Workman, Lorene	Lockney
Worthy, Margaret	Roscoe
Wray, Frances	Milford

Wright, Ellis E.	Palmer
Wright, Lallah	Big Spring
Yoder, Hal	Snyder
Young, Adelaide	Kerens
Young, Elizabeth	Bowie
Young, Mrs. Wills	Bowie
Zachry, Mrs. Dan H.	Huntsville
Zachry, Margaret Mary	Jefferson
Zellner, Lloyd	Lubbock
Ziehe, H. C.	Lubbock
Zoons, Mrs. Maud	Meadow

ROSTER OF STUDENTS, SESSION OF 1930-31

(TO MAY 6, 1931)

Abbreviations

A—Agriculture

E—Engineering.

H—Home Economics.

L—Liberal Arts.

GS—Graduate Student.

1—Freshman.

2—Sophomore.

3—Junior.

4—Senior.

Abbitt, W. H., GS	Lubbock
Abbott, Lavelle, 1E	Lubbock
Abraham, Malouf, 1L	Canadian
Abraham, Tom, 3L	Canadian
Adair, Jack, 4L	Point
Adams, Bonnie Wayne, 1L	Cross Plains
Adams, Charles, 3L	Lubbock
Adams, Erie Dell, 1L	Lubbock
Adams, Izora, 1L	Star
Adams, J. C., 1A	Wheeler
Adams, James, 1A	Tulia
Adams, Jerry, 1A	Cone
Adams, Jewel, 1L	Miles
Adams, Mary Elizabeth, 4L	Lubbock
Adamson, Geneva, 1L	Plainview
Adkins, Freddie Opal, 1H	Lubbock
Adkisson, Alberta, 1L	Abernathy
Adkisson, Alfred J., 2L	Lubbock
Adkisson, Ella B., 1L	Abernathy
Agerton, Tom M., 1E	Waco
Ahlman, Alfred Paxton, 3L	Premont
Aiken, Roger F., 1A	Granbury
Aiken, Roy E., 1A	Granbury
Akard, Mary Frances, 2L	Lubbock
Aldriedge, R. H., 1A	Saint Jo
Alexander, Alma, 1L	Lubbock
Alexander, C. Fredericka, 3L	Cleburne
Alexander, Ruth, 3L	Breckenridge
Alexander, Tina, 1H	Moody
Allen, Buford, 1E	Lubbock
Allen, Curtis, 2L	Lubbock
Allen, Mrs. Ed, 1L	Lubbock
Allen, Loradean, 1L	Lubbock
Allen, Marie, 1L	Anton
Allen, Mary, 2L	Lubbock
Allen, Maxine, 2L	Lubbock
Allen, Robert King, 2A	Leander
Allen, Tommie, 1L	Dimmitt

Allensworth, Mrs. Grace, 1L	Lubbock
Allison, Billie, 1E	Menard
Allison, Douglas, 1E	Daisetta
Allison, G. C., 1E	Robstown
Allison, Glenn L., 3L	Clarendon
Allison, Roger, 4E	Brownwood
Almack, Virgil, 1E	Wellington, Kan.
Alterman, John, 1L	Dallas
Ammons, Harold, 4L	Lubbock
Anderson, Beulah, 1L	Marshall
Anderson, Beulah, 1L	Shallowater
Anderson, Clogett, 1E	Silverton
Anderson, R. H., 3E	Haskell
Anderson, Velma, 2H	Aspermont
Anding, George, 2E	Rosebud
Ansley, Mary, 1L	Lubbock
Anthony, Ben, 1L	Big Spring
Anthony, James, 1L	Memphis
Armeling, Lyra, 1L	Lubbock
Armstrong, Elibazeth, 2H	Lorenzo
Armstrong, Eva, 3L	Comanche
Armstrong, Kathryn, 2H	Lorenzo
Armstrong, Ursel, 1L	Panhandle
Arnett, Anna Bass, 2H	Lubbock
Arnett, Hazel, 1H	Lubbock
Arnold, Ermine, 1H	Leonard
Arnold, Leon, 1E	Lubbock
Arrington, Louise, 2L	Duncan, Okla.
Arthur, D. C., GS	Dublin
Arthur, Mrs. D. C., 1L	Dublin
Arthur, Jack, 2E	Lingleville
Asher, Joe P., 2E	Paducah
Ashley, Aubrey, 2L	Lorenzo
Atcheson, James, 3E	Lubbock
Atchison, C. J., 4L	Lubbock
Au, Chung Wo, 2L	Hong Kong, China
Ault, Ward, 1A	Mills, N. M.
Ausmus, Graydon, 2L	Lubbock
Austin, Hammond, 2L	Lubbock
Aycock, Elinor, 1L	Lubbock
Ayers, Ross, 2L	Cuero
Bacon, Afton Gilkerson, 4L	Lubbock
Bacon, Gaston R. Spencer, 3L	Lubbock
Bacon, Virginia, 3L	Lubbock
Bagwell, Robert, 3E	Lubbock
Bagwell, Stancil, 4E	Lubbock
Bailey, Carl, 2L	Estelline
Bailey, Sam, 1E	Estelline
Baird, Elizabeth, 4L	Vernon
Baird, Hubert, 1E	Vernon
Baker, Coleta, 1L	Lubbock
Baker, Dorothy, 1L	Lubbock
Baker, Evelyn, 3L	Lamesa
Baker, Elva, 1A	Abilene
Baker, Howard, 2E	Archer City

Baker, Inez, 1H	Sulphur Springs
Baldwin, Ben., 1E	Lubbock
Ball, John S., 1E	Lubbock
Ballenger, Felix, 1E	Lubbock
Ballenger, Murray, 3L	Lubbock
Bandy, Edith, 1L	Happy
Banks, Juanita, 1L	Altus, Okla.
Banner, Leslie, 1E	Fort Worth
Banta, D. A., 1E	Bellaire
Banta, Hilry, 1A	Lamesa
Mardwell, Mary Lee, 1H	Lubbock
Barham, Doyle, 1E	Coolidge
Barker, Claude, 1L	Lubbock
Barks, Frances, 2L	Tulia
Barksdale, Logan, 1L	Gainesville
Barley, Burma, 1L	Big Spring
Barnard, Berlin, 4L	Elida, N. M.
Barnett, Allie, 1L	Lubbock
Barnett, Mary, 1L	Lubbock
Barrett, Florence E., 1H	Lubbock
Barrett, Thomas, 1E	Anson
Barrick, L. D., 1L	Abernathy
Barrier, Annie Lu, 2L	Lubbock
Barrier, Mrs. Paul, 1L	Lubbock
Barrier, Raymond R., 1L	Lubbock
Barron, Fred C., 1L	Wichita Falls
Barrow, Ollie May, 1H	Lubbock
Bartell, Fay, 1L	Lubbock
Bartlett, Hilma, 2L	Lubbock
Bartlett, Wilma, 2H	Lubbock
Bartley, Howard, 2E	Waco
Barton, Ernest, 1A	Lubbock
Barton, Naomi Sue, 1H	San Angelo
Barton, Raymond, 1L	Lubbock
Baskin, K., 1L	Lubbock
Baskin, Louise, 3L	Lubbock
Bass, Joe, 1A	Athens
Batchelor, Lella, 1H	Lubbock
Bates, Louise, 2H	Lubbock
Battin, Fugord, 1L	Lubbock
Bauer, Anton, G., 1L	Dallas
Baugh, Lofton, 1E	Lubbock
Bacousett, Roe, 3A	Camp Springs
Bayless, Roscoe, 2L	Lubbock
Baze, M. H., GS	Lubbock
Beale, A. C., 1E	Dallas
Bean, Russell, 2A	Lubbock
Beard, Girdy Pearl, 2H	Rule
Beard, Harry, 4E	Rule
Beard, Haskell, 3A	Lubbock
Beard, Stella, 2H	Lubbock
Bearden, Harold, 3L	Lamesa
Bearden, Victor, 2L	Lamesa
Beaver, Leo, 2A	Fluvanna
Beckett, Alice Murle, 3L	Cheney, Kan.
Beckett, Lois Marie, 3L	Cheney, Kan.

Beebe, Gyndolen, 1L	Lubbock
Beene, G. L., 2A	Roby
Bell, H. M., GS	Lubbock
Bell, James, 1L	Crowell
Bell, Lennon G., 3E	Lubbock
Bell, Uel, 3A	Lubbock
Benham, Ford, 2E	Amarillo
Benn, Owen, 1E	Abernathy
Bennett, Mrs. Ruby, 1H	Lubbock
Benson, C. L., 2E	Clarendon
Bergfeld, Julis, 3E	Tyler
Berrier, Christine, 1H	Maypearl
Berry, Eugene, 1E	Hobbs, N. M.
Berry, Mrs. Velma W., 3L	Lubbock
Bettersworth, H. S., 2E	Amarillo
Beyhan, Jack, 1L	Texon
Bickham, Chas., 3L	Lubbock
Bickley, Annie Fern, 4L	Lubbock
Bickley, Cecil, 2L	Lubbock
Biggers, Etta Mae, 1L	Lubbock
Bishop, Clara Mae, 1L	Lubbock
Bishop, James, 1E	Lubbock
Bivins, D. D., 4E	Walters, Okla.
Black, Crawford, 3L	Lubbock
Black, Harvey, 1L	Wichita Falls
Blackburn, Rose Lee, 1L	Lubbock
Blackstock, Lyman Jr., 2L	Brownfield
Blair, Floyd, 1L	Lubbock
Blake, Elmer, 1L	Gainesville
Blanton, Charles, 1L	Whitewright
Blanton, Ella Mae, 3H	Ralls
Blassingame, Verla, 1H	Floydada
Bledsoe, Gussie, 1L	Westbrook
Bley, Charlie, 1L	Fluvanna
Bludworth, Mrs. Lucille, 3L	Lubbock
Blythe, Helen, 1L	Kaufman
Bobo, Clarence, 2L	Paducah
Bodily, F. Reynolds, 1A	Caldwell, Idaho
Bogan, Bernard, 1E	Lubbock
Boggs, Donald, 4L	Lubbock
Bolgar, John, 1L	Hewitt
Bolton, J. Mac, 1L	Levelland
Bonner, G. W., 4L	Ashland, Okla.
Boone, Crystelle, 3L	Lubbock
Boone, Tempie, 1H	Junction
Bond, Richard, 1L	Waurika, Okla.
Bord, Leo, 1E	Ochille, Okla.
Boren, T. R., 1A	Henderson
Bostick, Marie, 1H	Fort Worth
Bottlinger, Ernest, 1A	Ireland
Bourland, J. C., 1A	Coleman
Boverie, Floyd, 1L	Wellington
Bowen, Marie, 1L	Lubbock
Bowlin, Lucille, 1H	Lubbock
Bowman, Morgan, 2L	Seymour
Boyd, Hiley, 1L	Lubbock

Boyd, Kate, 4L	Lubbock
Boyd, Luvania, 1L	Lubbock
Boyd, Mrs. Mary Hudson, 1L	Lubbock
Boyd, Weldon, 1L	Petersburg
Boyles, Rheba, 3H	Chillicothe
Bradford, Fields Y., 1E	Lubbock
Bradley, Maxine, 2L	Lubbock
Bradley, Ned, 1L	Lubbock
Bradshaw, Grace, 3L	Cisco
Brady, Barney, 4E	Amarillo
Bralley, J. C., 2E	Tulia
Brandenburg, Ralph, 3E	San Antonio
Grandon, Marvin, 1L	Forreston
Braver, Yeo, 1E	Lufkin
Bray, Edythe, 1L	Waldrip
Bray, Marian, 2L	Lubbock
Brazier, Edwin, 1L	Crosbyton
Brennand, J. R., 1E	El Paso
Brewer, Joseph, 1E	Slaton
Brewer, Velva, 1L	Hale Center
Brinker, Mrs. D. P., 1L	Lubbock
Bristow, Jessie Ree, 1L	Slaton
Bristow, Woodrow, 1E	Wichita Falls
Brock, Edna, 1H	Brownfield
Brock, Jean, 1E	Leggett
Brock, Ovid, 1L	Lubbock
Brock, Wilma, 1L	Lubbock
Brooks, Armilda, 1H	Levelland
Brothers, J. O., 4E	Lubbock
Brown, A. B., 2E	Lubbock
Brown, Aleen, 2L	Ackerly
Brown, Edward, 1E	Waco
Brown, George Lynn, 1A	Big Spring
Brown, Geo. W., 2E	Slaton
Brown, Howard, 1E	Abernathy
Brown, Jean, 1H	Rochester
Brown, Jewell, 2H	Rochester
Brown, John, 3L	Lubbock
Brown, Malcolm, 2L	Groesbeck
Brown, Marvin, 1E	Groesbeck
Brown, Mary B., 2L	Lubbock
Brown, Nellie, 3H	Quitaque
Brown, Nettie Faye, 1L	Lubbock
Brown, Robert E., 2E	Cisco
Brown, Sue, 2L	Lubbock
Browning, Buford, 2A	Fluvanna
Browning, Richard, 1E	Lubbock
Brownlee, Neva, 1L	Hurlwood
Bruckner, Margaret, 1L	Lubbock
Brumley, Mabel, 1L	Decatur
Brummett, R. C., 2E	Fort Worth
Bruton, Charles H., 1A	Lockney
Bruton, Hogue, 1A	Lockney
Bryan, Celes, 1L	Lubbock
Bryan, Mrs. J. Newell, 2L	Lubbock
Bryant, Marjory, 1L	Nevada

Bryant, Norval, 1L	Lubbock
Bryant, Robert, 1L	New Hobbs, N. M.
Bryant, Weldon, 1L	Corsicana
Buchanan, Monroe, 1E	Spearman
Buck, Weneva, 2L	Crosbyton
Buckner, Mary Dale, GS	Lubbock
Buie, Clarice, 1L	Stamford
Buie, Jas. M., 2E	Fort Worth
Bullock, Hubert, 2E	Lubbock
Bullock, Lesey, 2H	Lubbock
Bumgarner, Ptolie, 1A	Byers
Bumpass, Faye, 3L	Lubbock
Burford, Ferrel, 1E	Lubbock
Burford, Mrs. G. N., 4H	Lubbock
Burgess, LaVerne, 4L	Lubbock
Burgess, Leslie Van, 2L	Lubbock
Burgess, Roy, 1L	Quitaque
Burkhalter, Henry, 3E	Lubbock
Burleson, G. A., 1L	Wortham
Burnett, Wynona, 1L	Brownfield
Burns, Walter, 4E	Cameron
Burran, Bill, 1L	Spearman
Busby, Harold, 4L	Houston
Busby, R. O., 4E	Houston
Bussey, Lorene, GS	Lubbock
Butler, Annie Lorea, 1H	Lubbock
Butler, Lois, 2L	Lubbock
Butler, Mrs. M. C., 1H	Lubbock
Butler, Wanda, 1L	Lubbock
Butts, Aubrey, 1E	Waco
Bynum, Cecil, 1L	Lubbock
Bynum, Louise, 1L	Lubbock
Byrd, Leonard, 3L	Quinlan
Byrd, Walter, 2A	Lamesa
Cade, Joe, 1L	Chandler
Cain, Earl, 3A	Yoakum
Caldwell, Lorane, 1L	Lubbock
Callaway, Weldon, 1E	Wylie
Calley, Glenora, 1L	Shallowater
Campbell, Golda, 2L	Lubbock
Campbell, Louise, 1L	Lubbock
Campbell, L. F., 1A	Tulia
Campbell, Milton L., 3A	Buda
Campbell, R. Trent, 4E	Lubbock
Cantrell, Ralph B., 1E	Mexia
Carpile, Lee, 4L	Lubbock
Carlton, Woodrow, 1L	Idalou
Carmack, Shelburn, 4L	Konnarock, Va.
Carmichael, Carlton, 3A	Lubbock
Carmichael, Loveta, 2H	Lubbock
Carmichael, Ruth, 1L	Lubbock
Carpenter, Elmer, 1L	Plainview
Carpenter, R. B., 1L	Waco
Carpenter, Mrs. W. H., 1L	Lubbock
Carraway, Josephine, 1L	Houston

Carruth, Ida Ruth, 1L	Sudan
Carruthers, Pat, 1L	Kopperl
Carsey, Arnold, 3L	Dallas
Carsey, Lucille, 3L	Lubbock
Carson, Sarah Evelyn, 2L	Stamford
Carter, Christine, 2L	Henrietta
Carter, Dick, 2A	Plainview
Carter, Henry N., 1L	Waco
Carter, K., 1L	Lubbock
Carter, Ruth, 2H	Lubbock
Cason, Noel, 2L	Cleburne
Casteel, Beatrice, 1L	Lubbock
Casteel, Jack, 1L	Lubbock
Castle, Mrs. C. W., 1L	Lubbock
Castleberry, Davis, 1E	Vernon
Castleberry, Wayne, 3L	Eastland
Catching, Ruby, 3L	Slaton
Caton, Beryl, 2L	Lubbock
Cauble, E. G., 2A	Stiles
Cauthen, Sam, 4L	Clarendon
Cavett, Richard, GS	Lubbock
Cawthon, Carl, 1E	Plainview
Caylor, Floyd, 1E	Hugo, Okla.
Caywood, Flossie, 2H	Lubbock
Cellum, Era Mae, 1L	Lubbock
Chambless, Floyd, 1E	Waco
Chambless, Helen Jo, 1L	Lubbock
Champlin, Noble C., 1L	Lubbock
Chance, Berta, 1L	Anton
Chance, Lois, 1H	Ralls
Chandler, Bonita, 4L	Lubbock
Chandler, Graham, 1L	Lubbock
Chapman, Emma, 2H	Lubbock
Chapman, Harmon, 2L	Olustee, Okla.
Chapman, L. W., 2E	Lubbock
Chatfield, John K., 1E	Dallas
Chauveaux, Mary, 2L	Claude
Chatham, Mrs. E. M., GS	Lubbock
Chenault, H. L., 2E	Lubbock
Chenault, Maxey, 1E	Lubbock
Chenoweth, Chas. D., 2E	Panhandle
Chesser, Bristol, 3A	Stanton
Childress, Homa L., 1L	Miles
Childs, Ruth, 3L	Timpson
Chinn, Agnes, 1H	Lubbock
Chisum, Peopal, 1L	Levelland
Christopher, Nathan, 1E	Lubbock
Clack, Evaughn, 1H	Lubbock
Clapp, Roger, 3E	Childress
Clark, Clifton W., 1L	Idalou
Clary, Doyce, 1L	Lubbock
Clark, F. M., 4E	Lubbock
Clark, Frank M., 2L	Lubbock
Clark, G. Conrad, 4L	Megargel
Clark, Maxine, 1L	Lubbock
Clark, Roscoe, 1E	Lubbock

Claunch, Barton F., 3L	Silverton
Claunch, Byron, 4L	Hamilton
Clayton, Joe, 1L	Lubbock
Clayton, Mardes, 1L	Lubbock
Clements, Canon, 3L	Lubbock
Clements, Lizzie Bell, 4L	Lubbock
Clements, Milton, 2L	Kirkland
Clements, Solon, 4L	Lubbock
Clewell, Evelyn, GS	Lubbock
Clewell, Geraldine, 2H	Waco
Clifton, Robert T., 1E	Saint Jo
Cline, Esther, 1L	Lubbock
Clutter, Bill, 4A	Bonham
Cobb, Charles, 1L	Lubbock
Cocanougher, Mrs. Billie, 1L	Lubbock
Cocke, Cora, 1L	Wellington
Coffee, William, 1L	Borger
Cogdell, Ralph, 1A	Crowell
Cogdell, Weldon K., 1L	Crowell
Coker, F. M., 3L	Paducah
Cole, Clarence, 3E	Valera
Cole, O. J., Jr., 1L	Richmond
Cole, Ray, 1L	Childress
Coleman, Rosalyn, 1L	Vernon
Collie, Rubye, 2H	Hobbs, N. M.
Collier, Jim, 1L	Lubbock
Collier, Margie, 2L	Stanton
Collier, Nancy, 1L	Lubbock
Colling, Chas. B., 1E	Sherman
Collins, Allie R., 2L	Claude
Collins, Bill, 3L	Brownfield
Collins, Marwin, 1L	Celina
Colvard, Corinne, 2L	Strawn
Colvard, Mack, 1L	Strawn
Colvert, Ned, 2L	Lubbock
Cone, Eunice, 2L	Lubbock
Cone, Howard, 1L	Rockdale
Cone, Lula, 2L	Lubbock
Connell, Cecil, GS	Lubbock
Connell, Faye, 2L	Lubbock
Conner, Elizabeth, 1L	Lubbock
Conner, Georgia, GS	Lubbock
Conner, J. P., 2E	Lubbock
Conner, Louis, 3E	Lubbock
Conner, Vern, 1A	Farnsworth
Conrad, Kathleen, 1L	Lubbock
Conway, Ralph, 1E	Jacksboro
Coody, Garland, 1A	Caddo
Cook, Clinton, 3A	Post
Cook, Gordon, 4L	Post
Cook, Harold, 1L	Sherman
Cook, John L., 1L	Henrietta
Cook, Katie, 1L	Lubbock
Cook, Tressie, 2L	Draw
Cooksey, Donnalita, 1L	Seagraves
Cooper, Jessie, 2L	Plainview

Cooper, John K., 1L	Gordon
Cooper, J. Robert, 1L	Lubbock
Cooper, Kenneth, 1A	Gordon
Cooper, Margaret, 4L	Lubbock
Cooper, Winfield, 1L	Turkey
Cope, Mylo, 1E	Lubbock
Copeland, Floyd, 1A	Bowie
Copeland, Louvil, 1A	Bowie
Copeland, Monroe, 3A	Graham
Copeland, Vera, 2H	Bowie
Corley, Howard, 1L	Corpus Christi
Cornwell, Louise, 1H	Rails
Cosby, Mary, 1L	Lubbock
Couch, Hudson, 2L	Oklahoma
Cousins, S. A., 2E	McLean
Coutant, Clarence, 1L	Dallas
Cowan, Eva, 1H	Tahoka
Cowan, Geo., 1E	Seymour
Cowan, Thelma, 1L	Bowie
Cowart, Travis E., 3E	Lockney
Cowden, R. Paul, 1L	Oreonta, La.
Cowsert, Josephine, 2L	Dimmitt
Cowsert, Norma, 1L	Dimmitt
Cox, Catherine, 1L	Levelland
Cox, Charles, 1L	Lubbock
Cox, Imogene, 1L	Midland
Cox, Leah, 3H	Lubbock
Cox, Mildred, 1L	Tokio
Cox, Seth B., 1L	Stamford
Cox, Mrs. T. B., 1H	Lubbock
Cox, Virginia, 1L	Sweetwater
Cox, Walter, 2E	Abilene
Cozby, Miller, 3E	Lubbock
Crain, Mary Lou, 3H	Floydada
Cravens, Errett, 1E	Amherst
Cravens, Viola, 3L	Childress
Craver, Julius, 1E	Amherst
Craver, Merrill, 3L	Yantis
Crawsby, Elsie, 1H	Crosbyton
Crawford, A. W., 2E	Childress
Crawford, Elie, 2L	Levelland
Crawford, Geneva, 1L	Dimmitt
Crawford, Herschel, 2E	Slaton
Crawford, Milton, 1L	Dallas
Crawford, Preston, 2E	Lubbock
Creighton, Opal Louise, 2L	Abilene
Crenshaw, Robert L., 1L	Sweetwater
Crews, Alvin, 1L	Wilson
Crews, Rush, 2L	Seminole
Crimm, Homer T., 3L	Lubbock
Crites, Harold, 2L	Lubbock
Crimm, Mrs. Homer T., 2L	Lubbock
Croslin, Lottie, 3L	Lubbock
Cross, J. Hollie, GS	Lubbock
Cross, Leon, 2E	Royse City
Cross, Leta A., 3H	Lubbock

Crow, Edwin, 1L	Abernathy
Crump, Willis, 2E	Follett
Crutchfield, Carl, 2L	Lovington, N. M.
Crutchfield, J. Bailey, 2E	Baird
Cudd, Thos., 2L	Corpus Christi
Cummings, Clifton, 1E	Byers
Cummings, Clyde, 4L	Byers
Cummings, John R., 1L	Byers
Cummings, S. T., 2L	Cleburne
Cunningham, Orville, 1A	McLean
Cupp, Louis, 1L	Breckenridge
Curry, Pearlene, 1H	Wilson
Dallas, James, 4L	Brownfield
Dallis, Gus, 3L	Lubbock
Dalton, Jim M., 1L	Weatherford
Daniel, Collis C., 1E	Iraan
Daniel, Garth, 2E	Cisco
Darby, Iizzie Zora, 2H	Estelline
Darr, A. F., 2L	Melrose, N. M.
Darr, J. E., 1L	Melrose, N. M.
Davidson, Durrell, 4L	Mineral Wells
Davidson, Lennie Jo, 3H	Portales, N. M.
Davidson, Narl, 2E	Portales, N. M.
Davies, Josephine, 1L	Southland
Davies, Nina Opal, 2L	Lubbock
Davis, Austin, 1E	Sweetwater
Davis, Chapman, 2L	Sulphur Springs
Davis, Cleo, 1H	Sweetwater
Davis, Denver, 1L	Lubbock
Davis, Elmo, 2L	Lubbock
Davis, Frances, 1L	Vernon
Davis, Garland, 4L	Lubbock
Davis, Gene, 1E	Shamrock
Davis, Geraldine, 1L	Wilson
Davis, Herbert, 1A	Silverton
Davis, Jesse, 1A	Glen Rose
Davis, J. C., 1L	Rule
Davis, John A., 3E	Spur
Davis, Joyce, 2L	Ralls
Davis, L. C., 1L	Waco
Davis, Lee, 4L	Lubbock
Davis, Milton, 1A	Lubbock
Davis, Ralph Vernon, 2E	El Paso
Davis, Ray, 3E	Itasca
Davis, Vera, 2L	Lubbock
Dean, Bernice, 2L	Lubbock
Dean, Dale, 1L	Lubbock
Dean, Horace, 3E	Dawson
Dean, John, 2L	Crockett
Dean, L. Bernard, 3E	Lubbock
Dean, Marjorie, 1L	Lubbock
Dean, Ruby, 2H	Lubbock
Deaton, Ruby, 4L	Gordon
Deckert, Genevieve, 1L	Lubbock
Dederick, Marion, 1E	Sherman

Deen, Neva, 3H	Melvin
Deering, Eva, 2L	Elida, N. M.
DeLashaw, Fred, 2A	Ivanhoe
Denham, Loula, 3L	Lubbock
Denison, Russell, 4L	Lorenzo
Denney, Christine, 3L	Greenville
Dennis, Leonard, 1A	Graham
Denton, Louis, 1L	Post
Derrick, Jewell, 2L	Tatum, N. M.
DeShazo, Alma, 2H	Lubbock
De Shazo, Herbert, 3E	Lubbock
Dickenson, Albert, 1A	Silverton
Dickinson, Gordon, 3L	Lubbock
Dickinson, Jim, 1L	Olton
Dickson, Drew, 1E	Ballinger
Dickson, J. M., 1E	Beaumont
Dickson, Travis, 1L	Roby
Dillard, Edna Mae, 1L	Lorenzo
Dillard, Jewell, 1H	Andrews
Dillehay, Nona, 1L	Plano
Dison, Everitt, 4E	Canyon
Doak, Eva, 1L	Lubbock
Doak, Wesley, 3L	Plainview
Dobbs, Martin, 1L	Colorado
Dobkins, Joyce, 1L	Roaring Springs
Dockray, Felice, 4L	Lubbock
Dodd, Earl, 1L	Gageby
Dodson, Sue, 1L	Lubbock
Dominy, James, 3A	Paducah
Donaldson, Mrs. C. L., 1L	Lubbock
Donley, Joe, 3L	Perryton
Donnell, Ruth, 1L	Lubbock
Donnell, Sidney, 2A	Lubbock
Donnelson, Mozelle, 1L	Lubbock
Doose, C. A., 2E	Ballinger
Doran, Jack B., 1L	Lovington, N. M.
Dorn, Mattie, 2L	Colorado
Doucette, Albert, 1E	Pampa
Doucette, LeFors, 1E	Pampa
Douglas, Emmajean, 1L	Lubbock
Douglas, Louise, 1L	Texhoma, Okla.
Douglas, Ralph, 1E	Lubbock
Douglas, Ruth, 1L	Lubbock
Dowell, Earnest, 1L	Lubbock
Dowers, Alfred, 1E	Perryton
Doyle, Douglas, 1H	Levelland
Drake, L. Clyde, 4E	Lubbock
Drake, Lawrence, 2E	Kress
Drake, Marjorie, 1L	Lubbock
Drake, Robert, 2E	Kress
Drake, Wilson, GS	Kress
Drew, Ellis R., 2E	Kaufman
Drexel, Mrs. B. H., 3L	Lubbock
Drinkard, Cloyce, 1A	Snyder
Drummond, Jno., 1A	Abilene
Dudley, Catherine, 1L	Comanche

Duke, Spatan, 1L	Dawson
Duncan, Hazel, 2H	Duncan
Duncan, Homer, 1L	Lubbock
Duniven, C. L., 1L	Amarillo
Dunlop, Margaret, 2L	Lubbock
Dunn, Erlene, 2L	Georgetown
Dunn, Fannye Sue, 4H	Lubbock
Dunn, Harvey, 2L	Ralls
Dunn, Raymond, 2L	Slaton
Duren, Warren, 1L	Mullin
Durham, Aulton, 1L	Silverton
Durham, G. W., 1E	Lubbock
Durham, Jack, 4L	Hamilton
Dyer, J. M., 3E	Waurika, Okla.
Dykes, Allen, 1L	Lubbock
Earnest, Edith, 1L	Lubbock
Earnest, Ralph, 1L	Lamesa
Easley, Tom Lee, 2A	Seymour
East, Henard, 1L	Hereford
Easterling, T. R. 1E	Memphis
Eaterly, James, 1L	Van Alstyne
Eaton, Frank, 1L	Lubbock
Echols, Carson, 1A	Lamesa
Edmondson, Mrs. Louise B., 4H	Lubbock
Edmondson, Pearl, 1L	Slaton
Edwards, Aubrey, 1E	Lubbock
Edwards, Edgar, 1L	Tahoka
Edwards, Eugene, 3E	Fort Worth
Eidson, Maud, 3H	Stanton
Eklund, Lillian, 3H	Slaton
Elkins, Campbell, 1L	Lubbock
Elkins, Clyde, 3L	Lubbock
Ellis, Alvis, 2L	Anton
Ellsworth, Heber, 3A	Lubbock
Emanuel, Alfred, 1L	Wellington
Emison, Frank, 4L	Brownwood
England, Helen, 4L	Hillsboro
English, Elisha, 2L	Crosbyton
Enoch, G. J., 2E	Floydada
Erwin, Dorothy, 4L	Lubbock
Etter, Mrs. Ova M., 4L	Lubbock
Eubank, Delbert, 1L	Lubbock
Eubanks, Gail, 1L	Corpus Christi
Eudaly, S., 4E	Fort Worth
Evans, Grady, 1A	Burleson
Evans, Guy, 1E	Lindale
Evans, Tommy, 1L	Baird
Evers, Frances, 1L	Brady
Ewing, J. C., 2E	Denton
Ezell, Willie Maye, 1L	Crosbyton
Fairchild, Everett, 2L	Plainview
Fairly, Fred, 1E	Lubbock
Fann, Marvin, 1L	Lubbock
Featherston, Chas., 3L	Petersburg

Feldman, Mrs. Louis, 1L	Lubbock
Ferguson, Roberta, 2H	Floydada
Fette, Lilly, 1H	Muenster
Fickas, W. R., 3L	Lubbock
Fields, Anita, 1H	Bronco
Fielden, Joe, 1L	Amherst
Fincher, Cecelia, 1H	Lubbock
Fincher, E. B., 4L	Amarillo
Fine, Casey, 1A	Slaton
Finley, Milton, 1E	Waco
Fisher, A. D., 4L	Longview
Fisher, Arthur, 2L	Shallowater
Fisher, Hazel, 1H	Shallowater
Fisher, Leon, 3L	Memphis
Flache, Mamie Sue, 2H	Brownwood
Flake, Melvis, 1E	Lubbock
Flanagan, Wilburn, 1L	Lubbock
Floore, Mary A., 2L	Fort Worth
Flowers, Jack, 1L	Big Spring
Foley, Bill, 1L	Junction
Foote, Fay, 4L	Sudan
Forbess, Ordis, 2E	Lubbock
Forbis, Joe Curtis, 1E	Lubbock
Ford, Lottie May, 4H	Groom
Ford, M. H., 4L	Waco
Ford, Ruby, 2H	Lubbock
Forman, Ellis Ray, 2L	Teague
Forman, Glenn, 1E	Coleman
Formby, M. C., 3L	McAdoo
Fort, Hazel, 1H	Floydada
Fortenberry, Ruth, 1H	Running Water
Foster, Clark, 1L	Portales, N. M.
Foster, John, 3E	Stratford
Foster, Vincent, 3L	Amarillo
Fowler, Graves, 1E	Sudan
France, Lawrence, 3L	Levelland
Frazier, Glenn, 1E	Westminster
Frazier, Harold, 3A	Farmersville
Freeman, Audrey, 1L	Cameron
Freeman, Guy, 1L	Corsicana
Freeman, Lois, 3L	Lubbock
Freeze, John, 1L	Sweetwater
Frizzell, Greer, 1A	Lubbock
Fry, Bill, 3E	Dallas
Fryar, Lorena, 2L	Matador
Fullagar, Callie, 1L	Lohn
Fuson, Earl, 2E	Abilene
Gabb, Loraine, 2L	Lubbock
Gabrielle, Sanford, 1E	Nashville, Tenn.
Gainer, Arch, 4L	Rochelle
Gaines, Leon, 3L	Bellevue
Gaines, Nannie Mae, 4H	Lubbock
Gaines, Robert, 1E	Rockwall
Gale, Mary Frances, 2L	Lubbock
Galbraith, Chas., GS	Lubbock
Gallman, Flaudie, 1L	Frost

Galloway, W. S., 4E	Frankston
Galt, Charles, 1E	Hale Center
Gamble, Mary, 1H	Floydada
Gambrell, Dow, 3L	Lubbock
Gamel, Mary L., 3L	Lubbock
Gamel, Worth, 1E	Lubbock
Gammon, John, 2A	Friona
Gandy, Theron, 1E	Wiergate
Gantt, Hubert, 1E	Wildorado
Gardner, Elsworth, 2L	Hollis, Okla.
Garlington, Evelyn, 1L	Midland
Garner, James W., 2L	Turkey
Garrard, H. C., 1L	Lubbock
Garrett, Dochia, 1H	Lubbock
Garrett, Maurice, 1L	Big Spring
Garrett, Wilson, 2L	Jayton
Garrigues, Pauline, 1H	Slaton
Garrison, Hill, 4E	Lubbock
Garrison, LaVerne, 2L	Lubbock
Garrison, Louise, 2L	Lubbock
Garrison, Louise, 1L	Allison
Garrison, Ward, 1L	Lubbock
Garton, Eva Mae, 2L	Amherst
Gary, Fred, 1A	Dunn
Gay, William, 1E	Mroan
Gelin, Leona, 2L	Lubbock
Gentry, Tyson, 1A	Big Spring
George, Mrs. E. T., 1L	Lubbock
Geppert, Mattye V., 1H	Teague
Geyer, Gerald, 1L	Shamrock
Gibbs, Clifford, 1L	Loco, Okla.
Gibson, C. F., 1E	Paducah
Giddens, T. W., 4A	Snyder
Gilkerson, Voncile, 2H	Lubbock
Gilliam, Hughes, 2L	Haskell
Gillis, James W., 1L	Gainesville
Gillis, John, 1E	Gainesville
Girand, Alma, GS	Lubbock
Gist, Morgan, 3E	Colorado
Glasscock, Iris, 1H	Big Lake
Glazener, Walter, 2E	Lubbock
Glazier, Candler, 3L	Lubbock
Gleason, Dorothy, 3H	Tucumcari, N. M.
Glenn, Maurice, 4E	Stamford
Glenn, Vivian, 1L	Smyer
Glezen, Lila, 2L	Gilmer
Glover, Ralph, 4E	Raymondville
Goen, Guy, 2A	Lubbock
Goforth, Flora, 4L	Lubbock
Gohlke, R. C., 2L	Clifton
Golden, Carl, 4L	Snyder
Goldstein, Arthur, 1L	Richmond
Gooch, Robt., 2L	Lubbock
Good, Thomas B., 2E	Cooper
Goodloe, Jack, 3L	Lamesa
Goodloe, Nell, 3L	Lamesa

Goolsby, Adelle, 1H	O'Donnell
Gordon, Crystine, 1L	Wichita Falls
Gordon, G. G., 3A	Lubbock
Gordon, Imogene, 3L	Lubbock
Gordon, Jason, 3A	Albany
Gordon, Jay, 1L	Jay
Gordon, Lynn G., 2L	Lubbock
Gordon, Nina, 4L	Albany
Gowan, Monna, 1L	Estelline
Grantham, Rowena, 3L	Lubbock
Grau, Earl, 4L	Grady, N. M.
Graves, Eileen, 2L	Lubbock
Graves, Hayne, 1L	Eldorado
Graves, Lois, 2L	Fort Worth
Graves, Nova Lynn, 1H	Big Spring
Gray, Hal, 2E	Wellington
Gray, Mrs. Queen, GS	Gorman
Gray, Stanley, 1A	Rising Star
Gray, Willard, 1E	Tyler
Grayum, Gerome, 3L	Paducah
Greathouse, Frank, 1E	Tahoka
Green, Della D., 2L	Lubbock
Green, Ethel, 1H	Lubbock
Green, E. B., 1A	Lubbock
Green, Geo. P., 3E	Portales, N. M.
Green, Geral, 1L	Snyder
Green, Jno. R., 1L	Lubbock
Green, Margaret, 1L	Lubbock
Green, Mary, 1E	Lubbock
Green, Porter, 2E	Graford
Green, Ruth, 2L	Lubbock
Green, Truman, 1E	Portales, N. M.
Green, William, 1E	Lubbock
Greene, J. W., 1A	Snyder
Greer, Albert, 1E	Comanche
Greer, Doyle, 4L	Lockney
Greer, Geneva, 1L	Meadow
Greer, Wayne, 1L	Lockney
Greever, W. R., 1E	Spearman
Gregg, Lois, 1L	Eustace
Gregory, G. Carlyle, 2E	Teague
Gregory, William, 1A	Lubbock
Griffith, Dorothy, 1L	Sweetwater
Griffin, Estelle, 3L	Lubbock
Griffin, Johnny, 1L	Desdemona
Griffing, Hollis, 1E	Mertens
Griffis, John H., 1A	Waco
Griffis, W. A., 1L	San Antonio
Griffith, Evon, 1L	Lockney
Griffith, Frank, 1L	Big Spring
Griffith, Homer E., 2A	Lubbock
Griggs, Mary Alice, 2H	Amarillo
Grimsley, Glyds, GS	Lubbock
Grinnell, Wiley, 1L	Lubbock
Grissom, Marvin, 1L	Lovington, N. M.
Grizzell, Edward, 2E	Colorado

Grundy, Jack, 2E	Quitaque
Gruver, Hazel, 3H	Lubbock
Guess, Marie, 1L	Bogata
Guess, Ruth, 2L	Idalou
Gulledge, Velda B., 1H	Lubbock
Gunn, Frances, 1L	Lubbock
Gunn, Marguerite, 1L	Lubbock
Guthrie, John, 3E	Seymour
Gwin, Maxine, 2L	Pampa
Hackney, Glenn, 1A	Sulphur Springs
Hagler, W. T., 1E	Coahoma
Hailey, Lucille, 1L	Big Spring
Halbert, Lucius, 1L	Plainview
Hale, Leon, 1L	Lubbock
Hale, Moody, 2A	Clarksville
Hale, Virginia, 1L	Lubbock
Hale, W. V., 1L	Lubbock
Hiliburton, Francis W., 1L	Electra
Hall, A. G., 1L	Slaton
Hall, Ewell, 1L	Lubbock
Hall, Homer, 1E	Lubbock
Hall, Leslie, 2L	Stanton
Hall, Lois, 1L	Quitaque
Hall, Mancil, 4L	Lubbock
Hall, Mary L., 2L	Ancho, N. M.
Hall, Pauline, 1L	Lubbock
Hallman, Maurice, 1E	Wills Point
Halsey, Lee, 1A	Plainview
Halsey, Ray, 1A	Plainview
Hambright, Sue, 1L	Lubbock
Hamilton, Buryl, 2L	Childress
Hamilton, Marguertie, 2L	Waxahachie
Hamilton, Vira, 1L	Plainview
Hampton, Garland, 1E	Wellington
Hampton, George, 3E	Vernon
Hancock, Annie Laura, 1H	Lubbock
Hancock, J. E., 1E	Lubbock
Hancoc, Louise, 1L	Tahoka
Haney, Waurika, 1L	Lubbock
Hankins, Flake, 3E	Lubbock
Hankins, Melville, 4L	Lubbock
Hankins, Mrs. Melville, 2L	Lubbock
Hansen, Arthur, 2L	Weiser, Idaho
Hansen, Nelsen, 1A	Weiser, Idaho
Harbison, Ruby, 1L	Post
Hardgrave, Bascomb L., 1E	Lubbock
Hardgrave, Lyle, 1L	Lubbock
Harding, Fenton, 2E	Dallas
Hardy, Finis, 1L	Mabank
Hardy, Paul, 3A	Bonham
Hargrave, Elizabeth, 2L	Lubbock
Hargrove, Pauline, 4H	Colorado
Hargus, June B., 3E	Eastland
Harkey, Willard, 1L	Dickens
Harkins, Clarice, 1L	Hermleigh

Harkins, Malvin, 1L	Ralls
Harman, N. L., 1L	Lampasas
Harmon, Julia M., 1L	Ldalou
Harmon, Kathleen, 3H	Lampasas
Harper, Arch, 1L	Lubbock
Harper, Beth, 1L	Chilton
Harper, Bryan, 1E	Lubbock
Harper, Carl, 1L	Lubbock
Harper, R. D., 1E	Lubbock
Harral, Chas., 2A	Lubbock
Harral, Walton, 1A	Lubbock
Harred, Edith, 1L	Brownfield
Harred, Hazel, 1L	Brownfield
Harrell, Fred, 2E	Loraine
Harrell, James, 1E	San Saba
Harrell, Lorene, 3L	Sanderson
Harris, Baley, 1A	Clifton
Harris, Courtney, 1L	Amarillo
Harris, Ealey, 1L	Ralls
Harris, Ed, 2L	Amarillo
Harris, Erma Lois, 1L	Lubbock
Harris, Lynette, 2L	Tulia
Harris, Mildred, 4L	Lubbock
Harris, Olin, 1L	Eddy
Harris, T. J., 4A	Clifton
Harrison, Homer, 1L	Lubbock
Harrison, Pearl, 2L	Roswell, N. M.
Harrison, Ralph, 1A	Lubbock
Hart, Carl, 3E	Lamesa
Hart, Hugh, 2L	O'Donnell
Hart, K. L., 1L	Big Spring
Hart, Mrs. Ruth, 1L	Lubbock
Harter, Joseph, 2A	Mart
Hartman, Elmer, 4A	Lockney
Hartzog, Evelyn, 1L	Lubbock
Harvel, Gladys, 1H	Hale Center
Harvel, L. W., 3A	Hale Center
Hash, Virginia, 1L	El Paso
Hastings, Olin, 2L	Roscoe
Hatch, J. R., 1L	Big Spring
Hatchett, Chas., 4E	Lamesa
Hatchitt, La Verne, 2L	Acme
Havis, Leon, 4A	Lubbock
Havis, Maurine, 1H	Lubbock
Havis, Melvin, 1L	Lubbock
Hawes, Opal, 1L	Lubbock
Hawkes, Pratt, 1L	Prenton, Idaho
Hayden, Ruby Ethel, 1H	Pickton
Haygood, Minnie Mae, 1L	Lorenzo
Hayhurst, LaVerne, 1H	Lubbock
Haymes, Terrell, 3E	Lubbock
Haynes, Sarah K., 1L	Lubbock
Hays, Odessa, 1L	Lubbock
Hays, Winifred, 1L	Lubbock
Hayter, W. O., 1E	Amarillo
Hazel, Lanoy, 2A	Spur

Hazelwood, John, 3L	Lubbock
Hazelwood, Theo, 1L	Goose Creek
Headstream, Clyde, 4L	Tahoka
Headstream, May Belle, 1L	Roby
Headstream, Ray, 1L	Roby
Heard, M. E., 4E	Lubbock
Hearn, Quinton, 1E	Mineola
Hearrell, Ruth, 2H	Lubbock
Heatley, Gail, 1L	Lubbock
Heatley, Rose, 1L	Lubbock
Heatley, W. E., GS	Littlefield
Heleman, Tracy, 1L	Lubbock
Helms, J. C., 1E	Temple
Hemphill, Addie Mae, 1L	Littlefield
Henderson, Eulala, 1L	Lubbock
Henderson, Mary E., 3L	Byers
Hendrick, Fanny Mae, 1H	Lubbock
Hendrick, Ruth, 1L	Lubbock
Hendrick, T. G., 4E	Lorenzo
Hendricks, Mrs. A. R., GS	Lubbock
Henley, James R., 2L	Brownwood
Henrick, Sulta, 1L	Rogers
Henry, Elaine, 1L	Lubbock
Henry, Ellis, 1L	Ralls
Henry, Herbert, 1E	Burkévill
Henry, Sam, 2A	Lubbock
Henry, V. J., 1L	Knox City
Hensley, Inez, 2L	Lubbock
Henson, C. L., 1E	Lubbock
Henson, Chas., 1E	Seymour
Herbert, Ivan, 1E	Elida, N. M.
Hergert, Irvin, 1L	Perryton
Herndon, Creta, 3L	Portales, N. M.
Herndon, Beverly, 1L	Silverton
Herring, E. W., 3E	Mt. Calm
Herring, Lonnie, 1E	McGregor
Herrington, Ethel, 1L	Lorenzo
Hervey, Margaret, 4H	Rice
Hess, Orval, 4E	Pyron
Hewett, Eldon, 1E	Plainview
Hickman, H. H., 3L	Brownwood
Hicks, D. Langdon, 3L	Lubbock
Hicks, Lawrence, 2A	Sudan
Higgins, Mary, 1H	Matador
High, Ben, 1L	Dallas
Hill, Basil, 3E	Lamesa
Hill, J. Culver, 3L	Lubbock
Hill, J. Paul, 1L	Carey
Hill, Jim O., 4A	Lubbock
Hilley, Ira, 1E	Sidney
Hilton, Hall, 1L	Lubbock
Hinds, Mildred, 4L	Lubbock
Hinds, Ruth, 1L	Lamesa
Hinger, Fred, 2L	Endee, N. M.
Hinson, H. Houston, 1L	Lubbock
Hitchcock, Matt, 1E	Lexington

Hitt, Sammie M., 1H	Lubbock
Hix, Margaret, 1L	Wellington
Hoard, Clindon, 1L	Ireland
Hobbs, Earl, 2L	Littlefield
Hobson, Ennis H., 1L	Oklahoma
Hodges, J. C., 3A	Tuscola
Hoffman, Richard, 1E	Hannibal, Mo.
Holcomb, James, 4A	Snyder
Holcomb, Murray, 2E	El Campo
Holden, Joyce, 2H	Lubbock
Holden, W. B., 1A	Clarksburg, W. Va.
Holden, Mrs. W. C., GS	Lubbock
Holeman, Alfred, 3L	Lubbock
Holeman, Clarence, GS	Lubbock
Holgate, Barney, 1L	Brownfield
Holland, Ferne, 1L	Lubbock
Holliday, Alton, 3A	Nashville, Ark.
Hollinshead, Loyd, 1E	Tyler
Holly, Odis, 1A	Dumas
Holmes, Jesse, 1L	Lubbock
Holmes, Mrs. L. S., 3L	Lubbock
Holmes, Lyle, 2L	Shamrock
Holmes, William, 1L	Shamrock
Holt, Geraldine, 1L	Breckenridge
Holt, Irene, 2H	Idalou
Hooks, Robert, 2L	Lubbock
Hope, Edna, 2H	Frederick, Okla.
Hopkins, Howard, 2E	Lubbock
Hopper, Hubert, 3L	Lubbock
Hopper, John, 2L	Lubbock
Hopper, Sam, 3E	Wellborn
Hopping, Lillian, 4L	Lubbock
Hopping, Patti, 2L	Lubbock
Horne, Cecile, 2L	Lubbock
Horstmann, Albert, 3E	Buckholts
Houghton, Bennie, 1L	Lubbock
Houk, H. W., 2L	Waco
House, Mabel, 1L	Parnell
Houston, Chas., 4E	Lubbock
Houston, Lucile, GS	Lubbock
Howard, Marshall, 2A	Smyer
Howard, Ryan, 4A	Austin
Howard, T. V., 1E	Hannibal, Mo.
Howell, Harlan, 2A	Brownfield
Howell, Mrs. J. T., 3L	Lubbock
Hubbert, Jasper, 1L	Lubbock
Huckabee, Barbara, 1H	Wichita Falls
Hudson, Basil, 2L	Westbrook
Hudson, Lane, 1L	Big Spring
Hudson, Wellborn, 1E	Paris
Huelster, Lenora Josephine, 1L	Balmorhea
Huff, Jewel, 4L	O'Donnell
Huff, Robt., 3E	San Antonio
Huffaker, Chloe, 2H	Wilson
Hufstедler, Chester, 1A	Red Springs
Hufstедler, Virginia, 2L	Lubbock

Hughes, Marie, 1H	Levelland
Hughes, Newell, 1L	Lubbock
Hughes, Ola Irene, 1L	Lubbock
Hughes, W. F., 2A	Channing
Hughett, Mendal, 3L	Lubbock
Hugon, Felix, 2E	Gainesville
Hull, Edgar, 1L	Greenville
Humphries, Daisimay, 2L	Lubbock
Hunt, Lucille, 2H	Claude
Hunt, Nona, 1L	Texon
Hunter, Emory, 1A	Wellington
Huser, Robert, 2A	Granger
Huston, Allene Ruth, 3L	Lubbock
Hutchins, Artie, 3E	Bellview, N. M.
Hutchins, Marshall, 1E	Bellview, N. M.
Hyatt, Koma, 2L	Dimmitt
Ingram, Bettye Eloise, 1L	Nocona
Ingram, Cullen, 1L	Burkeville
Ingram, Rose Phillips, 2L	Lubbock
Inman, Benjamin, 1L	Sweetwater
Inman, Maggie Lee, 4L	Hale Center
Isaac, Brady, 4L	Lubbock
Isbell, R. M., 3E	Plainview
Jackson, Alfred, 1L	Lubbock
Jackson, C. B., 2L	Plainview
Jackson, Mrs. C. B., 1L	Plainview
Jackson, Evelyn, 1L	Big Spring
Jackson, Florence, 4L	Lubbock
Jackson, Frank, 1L	Nocona
Jackson, Harvey, 1L	Roaring Springs
Jackson, Helen, 4L	Lubbock
Jackson, Irene, 4H	Lubbock
Jackson, J. M., 3L	Houston
Jackson, Mildred, 2L	Ralls
Jackson, Opal Louise, 1L	Lubbock
Jackson, Ruby, 4L	Lubbock
Jackson, Stella, GS	Lubbock
Jackson, Thelma, 2L	Lubbock
Jacobsen, John, 2E	Hereford
Jacques, Lois, 1L	Mineral Wells
James, Billie, 1E	Iowa Park
James, C. B., 4L	Tahoka
James, Clifford, 1L	Lubbock
James, Clyde, 2E	Lubbock
James, Gordon, 4L	Lubbock
James, Noble, 1E	Lubbock
James, Philip, 2L	Lubbock
Jameson, Catherine, 3L	Lubbock
Jarnagin, William, 3L	Graham
Jarvis, Howell R., 1E	Crane
Jay, Walter, 1L	Lubbock
Jeffreys, Lois, 1L	Tahoka
Jeffus, Jean, 1E	Plainview
Jenkins, Ben, 1A	Gail

Jenkins, Harman, 2L	Lubbock
Jenkins, J. D., 2L	Lubbock
Jenkins, Orville, 1L	Lubbock
Jenkins, Wesley, 1L	Spearman
Jennings, Bill, 1L	Electra
Jennings, Evelyn, 1H	Lubbock
Jennings, Helen, 1L	Lubbock
Jennings, Jean Shelley, 2L	Lubbock
Jenson, A., 2E	Clifton
Johnson, Alliene, 2L	Mabank
Johnson, Doris Ladd, 3L	Eastland
Johnson, Elvin, 2L	Friona
Johnson, Garvice, 1L	Jewett
Johnson, John R., 2L	Lubbock
Johnson, Joyce, 1L	Eastland
Johnson, Lola Belle, 1L	Tahoka
Johnson, Mildred, 2L	Roby
Johnson, Nathan, 4L	Seagraves
Johnson, Paul, 1L	Post
Johnson, Mrs. Pauline, 2L	Lubbock
Johnson, Raymond E., 1E	Tyler
Johnson, Vernon, 2E	Lubbock
Johnson, William, 1E	Lubbock
Johnston, Lennie, 1L	Lubbock
Joiner, Gus, 2L	Miami
Jones, Allyne, 1L	Seagraves
Jones, Ethe, 1L	Memphis
Jones, Gerald, 1E	Perryton
Jones, Gordon, 1L	Melrose, N. M.
Jones, Janie, 1L	Mt. Calm
Jones, Kathleen, 1L	Sweetwater
Jones, Mildred, 2L	Lubbock
Jones, Robert, 1L	Abernathy
Jones, Ruth, 4L	Abernathy
Jones, Vernon, 2L	Mullin
Jones, W. O., 3L	Paducah
Jones, Woodson, 1L	Seagraves
Jordan, Doyle, 2A	Elgin
Judkins, Mary Pearl, 3L	Eastland
Kaderli, Hilton, 1E	Stamford
Kane, Edna, 1H	Lubbock
Karnes, Lois, 1L	Lubbock
Kaufman, Raymond, 3E	Amarillo
Keaster, Effie Lou, 3L	Lubbock
Keffer, Douglas, 1E	Shattuck, Okla.
Keithley, J. W., 1L	Littlefield
Kelley, Beaty, 4L	Seminole
Kelley, Frank, 2L	Pampa
Kelley, Joe, 1L	Dallas
Kelsey, Cecil, 1L	Lorenzo
Kelsey, Harry, 1L	Lubbock
Kelton, Norris, 1L	Baird
Kelton, Willard, 1E	Baird
Kemp, Bernice, 1L	Big Spring
Kemp, Frazier, 3A	Lubbock

Kendrick, Alice Elgie, 3L	Hillsboro
Kennedy, Paul, 2L	Estelline
Kennedy, Ruby, 4H	Lamesa
Kennon, John, 3A	Godley
Kerley, George, 1L	Ballinger
Kerley, Ioway Fay, 4L	Lubbock
Kerr, Fred, 1L	Lubbock
Kerr, J. C., 3L	Lubbock
Kerr, J. D., 1L	Amarillo
Kersey, Cecil, 2L	Amarillo
Key, Nowell, 1L	Wilson
Killam, Fern, 1L	Ballinger
Killian, Luil, 1L	Newport
Killim, Hugh, GS	Shallowater
Kinay, Myron, 1L	Dallas
King, Arch L., 1E	Lubbock
King, Louise, 1L	Bledsoe
King, W. A., 3A	Floydada
Kirk, G. A., GS	Ballinger
Kirk, Herbert, 3A	Stinnett
Kirkpatrick, Geraldine, 2L	Littlefield
Kirkpatrick, Lois, 2L	Littlefield
Kirsey, Milton, 3A	Lorenzo
Kittrell, Burns, 1E	Lubbock
Kittrell, Frotilla, 1H	Petersburg
Kittrell, Lucile, 1H	Petersburg
Klein, Agnes, 3L	Lubbock
Klein, Mildred, 1L	Lubbock
Kline, Wm., 2L	Gregory
Knight, Georgia, 2L	Lubbock
Knight, Martha E., 4L	Roswell, N. M.
Knipp, Dorothy, 3L	Lubbock
Knox, Eliot, 1E	Roby
Koen, Glada, 1L	Lubbock
Koeninger, Raymond, 4L	Plainview
Koger, J. N., 1L	Shamrock
Kral, Edith, 4H	Roby
Kral, Thomas, Jr., 2E	Roby
Krebs, William, 1E	Kingsbury
Krueger, Mrs. J. T., GS	Lubbock
Kuebel, Edgar, 2A	Spring Branch
Kuhn, Willett, 1E	Weatherford
Kutch, Elwyn, 1E	Lamesa
Lacy, Mrs. Dorothy, 3L	Lubbock
Lahm, Louis E., 4E	Amarillo
Lamar, Alma, 1H	Dallas
LaMaster, Cyrus, 1L	Perryton
Lambert, Oto, 1E	Stanton
Lancaster, J. B., 1A	Troy
Lancaster, Jesse Wade, 2E	Fort Worth
Landwer, M. F., GS	Lubbock
Lane, Billy, 1L	Vernon
Lane, J. R., 1E	Vernon
Lane, Walker, 4E	Clarendon
Laney, Jewell, 2L	McAdoo

Lang, Joe, 3L	Lockney
Langford, Fannie Lou, 1L	Lubbock
Langford, Geo., 3L	Frankell
Langford, Grace, 1H	Girard
Langham, J. T., 1E	Graham
Langston, Mrs. Martha Neale, GS	Lubbock
Larmer, Frances, 4H	Lubbock
Latson, Verna, 2L	Clarendon
Lauderdale, James, 1E	Saint Jo
Lawrence, Clayton, 1L	Mineral Wells
Lawrence, Hilda, 4L	Lubbock
Lawrence, Mercedes, 2L	Lubbock
Lawrence, Opal, 1L	Peacock
Lawrence, Vernon O., 1E	Pampa
Lawrence, Wesley, 1L	Manchester
Lawson, Dennis, 1L	Slaton
Lawson, H. J., 1E	Waco
Lawson, H. Louise, 1L	Lubbock
Lawson, Kermit, 1L	Panhandle
Leach, Don, 3E	Mineola
Leach, Edith, 1L	Lubbock
Leary, Eunice, 3L	Esteline
Leaverton, Joe, 1A	Lubbock
Lee, Ebbie, 2L	Lamesa
Lee, Hazel, 3H	Prairie Grove, Ark.
Lee, Nannie, 1L	Sudan
Lee, Travis, 1E	Lubbock
Lee, Z. B., GS	Sudan
Lefevre, Wayne, 1L	Henrietta
Leftwich, Kenneth, 1L	Lubbock
Legg, Eugene, 1L	Plainview
Leidigh, Mary, 1H	Lubbock
Le Master, Ray, 1L	Wichita Falls
Lemon, George S., 1L	Sulphur Springs
Lemon, Leona, 2L	Wilson
Leon, Claude, 2L	Rule
Leslie, Meldon, 1A	Lubbock
Leslie, Thelma, 2H	Snyder
Lewis, Ella, 1L	Ropesville
Lewis, H. E., GS	Levelland
Lewis, Novis, 1H	Lubbock
Ligon, Andrew, 3L	Lubbock
Lilljedahl, Lucile, 2L	Lubbock
Lilly, Warren, 4A	Devine
Lindsey, Jno. A., 2E	Lubbock
Lindsey, Kathryn, 4L	Lubbock
Lindsey, Margaret, 1L	Lubbock
Lindsey, Weldon, 1E	Lamesa
Liner, Eucl, 3A	Lubbock
Ling, Geraldine, 1L	Luxello
Linn, Dollie Mae, 2H	Lubbock
Lisman, Willie, 1A	Daisetta
Liston, Morrison, 1E	Terrell
Liston, Olive May, 1L	Lubbock
Lock, John H., 2L	Beaumont
Locke, La Vergne, 1L	Altus, Okla.

Lockwood, Albert, 4A	Lubbock
Lockwood, Daisy, 4H	Lubbock
Lodal, Cary, 4E	Gordon
Lodal, Olaf, 4E	Gordon
Logan, R. L., 2L	Lubbock
Logsdon, Charles, 1L	Palo Pinto
Long, Henry, 1E	Lubbock
Long, Rawls, 1H	Roscoe
Loper, Joyce, 1H	Corsicana
Lott, Warren, 2L	Amarillo
Loughmiller, Wiley, 1L	Lubbock
Loughridge, James, 2E	Waco
Love, Ruth, 2L	Lubbock
Love, S. T., 1L	Lubbock
Love, W. F., 1E	Lubbock
Lucas, N. A., 1L	Wortham
Luce, Stephen, 4E	Lubbock
Luce, William, 1E	Lubbock
Luna, Ircillia, 2H	Plains
Lundell, Helen, 3L	Lubbock
Lunn, Wacel, 2L	Hollis, Okla.
Lupton, Katherine, 1L	Littlefield
Lupton, Louise, 1L	Littlefield
McAdams, Carl, 2E	Gordonville
McAdams, Thomas, 1E	Big Spring
McAllister, Mrs. Ione, 4H	Lubbock
McArthur, Herman, 1A	Spur
McBrayer, Estill, 1E	Knox City
McCanne, Cornelia, 4L	Lubbock
McCarty, Paul, 3L	Lubbock
McClain, Carl, 2L	Lubbock
McClelland, Orene, 4H	Lubbock
McClendon, Haynes, 1L	Silverton
McCullom, Gerald, 1L	Lorenzo
McConnell, M. W., GS	Lorenzo
McCoy, Vera Mae, 1L	Lubbock
McCoy, Winnell, 1H	Lubbock
McCray, Leola, 1L	Snyder
McCroy, Eloise, 1L	Waelder
McCroy, Harry Lee, 2L	Ringling, Okla.
McCrummen, Lucille, 1L	Lubbock
McCullough, Coy, 1A	Lubbock
McCullough, E. A., 4L	Waco
McDermett, O. C., 3L	Westbrook
McDonald, Fred, 1L	Bronte
McDonald, Orea, 1E	Haskell
McDonald, Robert, 1L	Lubbock
McDonald, W. M., 2L	Lubbock
McDuff, Eros, 1L	Crosbyton
McElvaney, Shirley, 1E	Panhandle
McFarland, Dorothy, 1L	Dallas
McFarland, Eda, 1L	Synder
McFarland, Martha, 1L	Friona
McGee, Flora P., GS	Lubbock
McGehee, Myles, 1E	Wayside

McGlaun, Olga, 2H	Tulia
McGlothin, L. W., 1L	Bellevue
McGlothing, Sibyl, 1L	Sweetwater
McGowan, Jack, 2E	Lubbock
McGrady, John, 1E	Cisco
McGregor, Edna, 1H	Knapp
McIlhaney, Jesse, 2L	Lubbock
McIlhaney, Mrs. Mildred, 2H	Lubbock
McKay, Sparks, 2E	Marlin
McKendree, Verlin, 1L	Vega
McKinney, Herz, 2L	Waco
McKinney, Wm., 3A	Gordonville
McLaughlin, Floyd, 1E	Floydada
McLendon, Arnold, GS	Lubbock
McLendon, Mrs. Beulah, 3L	Lubbock
McLeod, Mrs. O. W., 1L	Lubbock
McLeod, Vernon, 1A	Wortham
McMahon, Emmitt, 1L	Lubbock
McMurry, Bill, 1L	Colorado
McMurtry, Hoyse, 1E	Vigo Park
McNabb, Margaret, GS	Lubbock
McNeese, Craig, 1E	San Antonio
McNeil, Kenneth, 2A	Raymondville
McQuien, Carl, 4E	Brownsboro
McSpedden, Mabel Clare, 1L	Shamrock
McWhorter, James, 3E	Childress
McWhorter, Odis, 1L	New Home
McWilliams, Bennie, 1L	San Benito
McWilliams, Pauline, 1L	McCamey
McWilliams, W. D., 4L	San Benito
Madden, Gerald, 2E	Waxahachie
Maddox, Don, 3E	Lubbock
Maddox, F. M., 2E	Lubbock
Maddox, Frank, 3E	Waco
Magee, Lawrence, 3E	Lubbock
Magee, Mary, 2L	Levelland
Maguire, Geo., 1E	Panhandle
Maize, Elmo, 3L	Spearman
Mallard, J. W., 3L	Lubbock
Maltby, Jay, 2E	Desdemona
Maner, Bailey, 1E	Hillsboro
Mangan, Tom, 1E	Canton
Manire, B. L., 3E	Slaton
Mann, Earl, 1L	Artesia, N. M.
Manning, Dan, 1E	Waco
Mansker, Hazel, 1L	Slaton
Marcom, Gordon, 1L	Levelland
Markham, Kenneth, 1E	Silsbee
Marks, Mrs. Ruth, 4L	Lorenzo
Marlowe, H. M., 1A	Kent, Wash.
Marr, Bedford, 1L	Shallowater
Marshall, J. M., 1L	Lubbock
Marshall, James, 1E	Lubbock
Marshall, Orval, 1L	Lubbock
Marshall, R. C., 3L	Hillsboro

Martin, Charles, 3L	Weatherford
Martin, Emma J., 4L	Lorenzo
Martin, G. R., 4L	Graham
Martin, Godfrey A., 1E	Denton
Martin, Harold, 1L	Lorenzo
Martin, Jewell, 1L	Petersburg
Martin, Kenneth, 1A	Stamford
Martin, Lula M., 4H	Jacksboro
Martin, Raymond, 1A	Anarene
Martin, T. F., 1E	Lampasas
Martindale, George, 1A	San Marcos
Mason, Mrs. Donnie, 1L	Chilton
Mason, Noel, 3E	Vernon
Massengale, Vernon I., 1L	Tahoka
Massey, Winfield, 1L	McLean
Mast, Henrie, 4L	Lubbock
Mast, John, 1L	Lubbock
Mast, Leland, 4L	Lubbock
Masten, Elva, 1H	Wellington
Matheny, Whitman, 4E	Bardwell
Maxcey, Irene, 1L	Locker
Maxey, Homer, 3L	Lubbock
Maxey, Robert, 2E	Lubbock
May, Ada R., 1L	Lubbock
May, Cora A., 1L	Lubbock
May, Eva, 3H	Lubbock
May, Gordon, 1L	Snyder
Mayo, Erle, 2E	Eastland
Medford, Imogene, 1H	Lamesa
Medlin, Albert, 1L	Corona, N. M.
Medlin, Weaver, 3L	Stamford
Meharg, Rose, 1L	Gatesville
Meharg, Travis, 4A	Gatesville
Meharg, Virginia, 1L	Gatesville
Mehrens, Clarence, 1E	Richmond
Melendez, A., 2L	Guatemala, C. A.
Meredith, Grace, 2L	Cooledge
Merriman, Mrs. Helen, 2L	Lubbock
Meservy, Alonzo, 1A	St. Anthony, Idaho
Meyers, O'Quin, 1E	Lamesa
Michie, Sarah, 4L	Lubbock
Mickle, Jack, 1L	Silverton
Middleton, Charlie, 2L	Lubbock
Middleton, E. V., 4E	Afton
Mika, Hugo, 2A	Lubbock
Milburn, B. P., GS	Lubbock
Millard, Riley, 1L	Fort Worth
Miller, Alton, 2E	Hereford
Miller, Mrs. Cora B., 1H	Lubbock
Miller, Fred, 1E	Granbury
Millican, Alice, 1H	Lampasas
Mills, Gordon, 4L	Lubbock
Mills, R. E., 2L	Lubbock
Millsap, Laurene, 2L	Lubbock
Mims, Mable, 2L	Amarillo
Minix, Elva, 1L	Clyde

Minor, Edward, 1L	Lubbock
Minter, Joseph, 1L	Pickton
Minter, Marlin, 1E	Sulphur Springs
Mitchell, Catherine, 2L	Bonham
Mitchell, Eugene, 1A	Collinsville
Mitchell, Mrs. Jno. Donald, 1H	Lubbock
Mitchell, Naomi, 1H	Matador
Mitchell, Raymond, 1L	Wichita Falls
Moberly, Guy, 1A	Albany
Mocha, Mozelle, 2L	Lubbock
Moffett, Milton, 1L	Stanton
Moffett, Wayne, 1L	Stanton
Montgomery, John, 1E	Brownwood
Montgomery, Opal, 1L	Lubbock
Montgomery, Travis, 1L	Lubbock
Moody, Hayden, 2E	Becton
Moody, Ted, 1E	Dallas
Moore, Mrs. A. C., 1L	Lubbock
Moore, Bruce, 4E	Tyler
Moore, Chas., 1E	Lubbock
Moore, Dwight, 1A	Elkhart
Moore, Lucian, 3A	Lubbock
Moore, Odell, 2E	Lubbock
Moore, Othelia, 1L	Big Lake
Moore, R. B., 1L	Desdemona
Moore, Ray C., 2E	Hamilton
Morgan, John H., 1L	Lamesa
Morgan, Perry, 2E	Pampa
Morgan, Shirley, 1L	Lubbock
Morgan, W. C., 2L	Hereford
Moring, Ava Lee, 1L	McLean
Morris, Bell, 1L	Amherst
Morris, Geo. T., 4E	Whitney
Morris, Leonard, 1E	Fort Worth
Morrison, Esther, 3L	Clarendon
Morrison, J. C., 1L	Slaton
Morrison, Sue, 3H	Lubbock
Morrow, Edward G., 1E	Gorman
Morrow, Una, 1L	Tahoka
Morton, Jas. H., 1L	Corsicana
Mounts, Maetta, 2H	Hale Center
Mullins, Glidewell, 3L	Lubbock
Mullins, Norval, 1E	Lubbock
Murdough, K. Lois, 3L	Lubbock
Murphy, Henry, 2E	Hermleigh
Murphy, Tommy, 1H	Barnhart
Murray, Corene, 3L	Lubbock
Murray, Virginia, 3H	Lubbock
Musgrove, T. C., 1E	Grenville, N. M.
Myrick, Roberta, 1L	Lubbock
Nance, Virginia, 3L	Cleburne
Nation, Arleigh, 1L	Clovis, N. M.
Neal, Edgar, 1E	Lubbock
Neas, Thurston, 1L	Vernon
Neece, Alvena, 1L	Dozier

Needles, Belverd E., 2E	Lubbock
Neeper, Neva, 2L	Sweetwater
Nelle, William H., 3L	Laredo
Nelson, Eleanor, 4L	Lubbock
Nelson, Ernest, GS	Lubbock
Nelson, Lomer, 2L	Lubbock
Nettles, Roy, 1L	Waco
Nettles, W. T., 4L	Waco
Newell, Alonzo, 1E	Abernathy
Newell, Eleanor, 4L	Roswell, N. M.
Newsom, Gladys, 1H	Brownfield
Newton, John, 1E	Idalou
Newton, Ruth Catherine, 4L	Idalou
Nichols, Murray, 1A	De Leon
Nichols, Wendell, 1A	Barstow
Nix, Earnest F., 1L	Greenville
Nix, Fred, 3A	Lubbock
Nixon, Paul, 1L	Harrold
Nixon, Walter, 2L	Waco
Noah, Stanley B., 1L	Lubbock
Noble, M. E., 3L	Lubbock
Noland, Charlie, 1L	Summerfield
Norman, Floyd, 3L	Amarillo
Norman, Ruth, 1L	Cove
Norman, T. H., Jr., 2L	Killeen
Norris, Sarah, 1L	Vernon
Nott, Willard M., 3E	Waco
Nystel, Garland, 1E	Abernathy
Obenchain, Hunter, 1L	Dallas
O'Connell, Elizabeth, 2L	Crowell
Odum, T. B., 1L	San Angelo
O'Dell, Pearl, 2L	Quanah
Odom, Alyne, 4L	Lubbock
Odom, R. M., 2L	Memphis
Ogdon, Mrs. Florence, 1L	Lubbock
Oglesby, Hazel, 3H	Lubbock
O'Hair, Rob, 1L	Lubbock
O'Kelly, Frances, 3H	Abilene
Olbeter, Louis, 1L	Clayton, N. M.
Olim, Sol, 2E	Lithuania
Olsen, Dorothy, 1L	Seymour
O'Neal, Sim, 1L	Coleman
O'Neill, Chas. F., 1L	Lubbock
O'Neill, Townsend R., 1L	Lubbock
Onstatt, Kendall, 1L	Littlefield
Ooley, Roy, 1E	Lubbock
Orr, Duane, 2E	Hereford
Orr, L. V., 1E	Lubbock
Osborne, Harold, 2A	Lubbock
Osborne, Weldon, 1E	Lubbock
Oswalt, Robt., 1L	Crowell
Owen, Edward, 1E	Spartan, Tenn.
Owen, Lourance, 3E	Carbon
Owen, Truett, 1L	Sherman
Owens, Evelyn, 2H	Lubbock

Owens, Lou Allie, 1L	Lubbock
Ownby, Elsie, 1L	Stinnett
Oxsheer, Dorothy, 2L	Big Spring
Pace, Betty, 3L	Big Spring
Page, Jack T., 1E	Fort Worth
Palmer, Irma D., 1L	O'Donnell
Pancake, Alma Micky, 1L	Lubbock
Pardue, Archie E., 1L	Hamlin
Pardue, Winona, 1L	Lubbock
Parker, Inex, 3L	Post
Parker, M. E., 3E	Lucille, N. M.
Parker, Thalia, 4H	Lubbock
Parker, Travis, 2E	Lubbock
Parkinson, Cap, 1L	Lubbock
Parks, Bruce, 4A	Clifton
Parks, Edna, 1L	Lubbock
Parks, Wilma, 2H	Clifton
Parmer, Opal, 1L	Miles
Parrack, Alma, 3L	Lubbock
Parsons, L. E., 1E	Sylvester
Paschal, Earnest, 1E	Cleburne
Patterson, Bob, 2L	Roby
Patterson, Malcolm, 2L	Big Spring
Patterson, Mildred, 1L	Big Spring
Patterson, T. L., Jr., 1E	Lubbock
Patton, Mrs. E. C., 1L	Lubbock
Payne, Leland D., 2L	Eddy
Payne, Pauline, 1L	Wellington
Peak, Alton, 1E	Lubbock
Pearce, Paul, 1E	Whitesboro
Pearson, R. C., 1E	Memphis
Pearson, Wilbur L., 4E	Lorenzo
Peden, Donald, 1L	Clarendon
Pederson, M. G., 3A	Clifton
Peek, Eula, 1H	Cordell, Okla.
Pellet, Joe, 1E	Dallas
Pendleton, Finis, 1L	Floydada
Pendleton, Walter, 1A	Stratford
Pendleton, Walter, Jr., 1L	Shamrock
Penney, Ralph E., 3L	Lubbock
Penny, Brooks, 1L	Lubbock
Pentecost, Ouida, 1L	Winters
Pereau, Harper, 1L	Lubbock
Periman, Ila Bee, 1H	Snyder
Periman, Vera, 2H	Snyder
Perkins, Dena, 2L	Meadow
Perkins, Everett, 3E	Ennis
Perkins, Lena, 2L	Meadow
Perrin, Dick, 1L	Dickens
Ferry, Normah, 1H	Levelland
Ferryman, C. C., GS	Lubbock
Perryman, Kirby, 1L	Gatesville
Persons, Mary Ollie, 3L	Quitauque
Peters, Gertrude, GS	Amarillo
Pevehouse, Mrs. Myrtle, 4L	Lubbock

Peveto, Audrey, 1L	Lubbock
Pfaff, Martha, GS	Gainesville
Pfluger, Raymond, 4L	Eden
Phillips, Bernice, 1L	Lubbock
Phillips, John, 1E	Dallas
Phipps, Gerald, 1A	Memphis
Pickett, Elvis E., 4L	Dalhart
Pierce, R. Q., Jr., 1L	Lubbock
Pimlott, Rex, 4E	Kress
Pinkston, Fred D., 4L	Lubbock
Pirkle, Opal, 1L	Roswell, N. M.
Pirtle, Lewis, 1L	Quinton, Okla.
Pirtle, Milbria, 1L	Lubbock
Plemons, Elmore, 3L	Matador
Poe, Carolyn, 1L	Harrisville, Mo.
Poffenbach, Frederick, 1L	Sweetwater
Pogue, Guy, 4L	Cedar Hill
Pool, Archie B., 2A	Clarendon
Pool, Juanita, 2A	Lubbock
Pool, Phyllis, 2L	Lubbock
Poole, Gertrude R., 3H	Abernathy
Poole, Warren, 1L	Floydada
Poole, Wendell, 2L	Greenville
Popplewell, Blanche, 1L	Lubbock
Porter, Galden, 1L	Seymour
Porter, Polly, 3H	Synder
Porter, Russell, 1A	Dalhart
Porter, Thurman C., 1L	Slaton
Porter, Tom, 2A	Dickens
Porterfield, Weldon, 1L	Tahoka
Potter, Curtiss E., 1E	Crane City
Potts, Goldie, 1L	Lubbock
Potts, Jas., 2A	Lubbock
Potts, Jas. F., 1E	Abilene
Powell, Carolyn, 4H	Lubbock
Powell, David D., 1L	Lubbock
Powers, Joe Bailey, 1L	Lubbock
Powers, Percy Geo., 4A	Perryton
Pratas, Geo., 1L	Breckenridge
Pratt, Avanelle, 1H	Abilene
Pray, Cecil, 4E	Lubbock
Pressley, Bob, 1L	Lubbock
Pribble, Iris, 2A	Hamlin
Price, Mrs. Ann, 1L	Lubbock
Price, Mrs. E. L., 1L	Lubbock
Price, H. Y., Jr., 4L	Lubbock
Price, Howard, 1L	Lubbock
Price, Juanita, 4H	Lubbock
Price, Marie, 2L	Lubbock
Price, Mildred, 1L	Lubbock
Price, Yancey, 1E	Lubbock
Proctor, Tolbert, 2L	Merkel
Puckett, Earl F., 2E	Roswell, N. M.
Puckett, Margaret, 1H	Amarillo
Puckett, Olen, 3L	Fort Worth
Pugh, Jean, 1H	Lubbock

Pundt, J. Halley, 2E	Canadian
Purtell, R. J., 1A	Brownfield
Quinlan, Gail, 1L	Lubbock
Quicksall, Mrs. J. L., GS	Lubbock
Ragle, Eleanor, 4H	Lubbock
Raley, Sherrell, 1L	Bryson
Ramsey Katherine H., GS	Lubbock
Ramsey, Oliver S., GS	Lubbock
Randal, Harold, 1L	Lubbock
Randal, William M., 2E	Lubbock
Randolph, Evelyn, 2L	Lubbock
Rankin, J. M., GS	Ralls
Rankin, Murvel, 1L	Lubbock
Ratliff, Corene, 3H	Lubbock
Ratliff, Edward, 1A	Eldorado
Ratliff, Murl, 3L	Lubbock
Ratliff, Oscar B., 2E	Haskell
Ray, Homer, 3L	Troy
Rayburn, Clara Mae, 1L	Roscoe
Read, Shelby G., 1L	Lubbock
Redinger, Geo., 1L	Hale Center
Redwine, Jewell, 2H	Tahoka
Reed, Clara Mae, 1H	Moreterey, Tenn.
Reed, Clayton, 2L	Lubbock
Reed, Mae, 1H	Vernon
Reed, Myrtle, 2L	Borger
Reed, Ruth W., 2L	Lubbock
Reeder, Exa, 1L	Lubbock
Reeder, Frances Ola, 4L	Lubbock
Reeves, Cordell, 4L	Lubbock
Reeves, Mrs. Leola, 1L	Lubbock
Reeves, Lloyd, 2E	Dallas
Reid, Delene, 2H	Clyde
Reinheimer, Wood, 2L	Butler, Mo.
Renfro, James R., 2E	Lubbock
Rettig, Arch, 1E	Henderson
Reynolds, Ernestine, 1L	Lubbock
Reynolds, Margie Fay, 1H	Canton
Reynolds, Robert, 1L	Killeen
Rhoades, Bobbie Lee, 3L	Lubbock
Rhodes, Mrs. J. P., 3L	Lubbock
Rhodes, John T., 2L	Grand Saline
Rice, Lucille, 3H	McLean
Richardson, Jas. K., 3L	Stratford
Richardson, Orville, 1A	Levelland
Richeson, Warren W., 2L	Pampa
Richy, Rhenm, 2H	Spur
Richie, Alma, 1A	Eros, La.
Richter, Carl J., 2L	O'Donnell
Riddle, Burrell, 1L	Sherman
Riegel, Robert, 1L	Big Spring
Riemer, Mathilde, 1L	Spearman
Riethmayer, L. C., 2L	Lamesa
Riggins, Lonnie, 3E	Groom

Ripps, Jas. Lewis, 1E	Big Spring
Risinger, Mrs. Thad, 3L	Lubbock
Ritcheson, William H., 3E	Dallas
Roach, Harriet, 1L	Lubbock
Roane, W. E., 4A	Valley View
Robbins, Dale, 2L	Lubbock
Roberson, Hugh B., 1L	Lubbock
Roberts, Homer, 2L	Sweetwater
Roberts, James, 1E	Lubbock
Roberts, Joe Y., 4E	Crowell
Roberts, Lester A., 1L	Indian, Okla.
Roberts, Mark O., 1L	Littlefield
Roberts, Rector P., 3E	Amarillo
Roberts, Robert, 1L	Perryton
Roberts, Stiles M., 1E	Lubbock
Roberts, Voleta, 2L	Lubbock
Robertson, Margaret C., 1E	Lubbock
Robertson, Virginia, 3L	Paris
Robinson, Brooks, 1L	Duncan, Okla.
Robinson, Theresa, 4L	Canyon
Robison, Polk, 1L	Lubbock
Rockey, Richard, 2L	Muleshoe
Rodden, Leona, 1L	Roswell, N. M.
Rodden, W. J., 1E	Roswell, N. M.
Rodeffer, Chas. C., GS	Lubbock
Rodgers, Lilah Gaye, 2H	Lubbock
Roe, Gertie, 2L	Brownfield
Rogers, A. O., 2E	Mineola
Rogers, Alice Muse, 3L	Lubbock
Rogers, Bethal, 4L	Lubbock
Rogers, Hildron, 1E	Lubbock
Rogers, Jessie, 1E	Houston
Rogers, Milford S., 1E	Royse City
Rogers, R. E., 1A	Farnsworth
Rogers, Velma, 2L	Trent
Rogers, Waltrude, 1L	Lubbock
Rollo, Kenneth, 2L	Lubbock
Romee, O., 2E	Seymour
Roming, Reginald, 1E	Temple
Rosenquest, Nell, 1L	Eastland
Ross, Clyde H., 1E	Corsicana
Ross, Douglas, 1E	Brownwood
Ross, John F., 1E	Corsicana
Ross, Mrs. Margaret G., 1L	Lubbock
Ross, Pauline, 1L	Lubbock
Rosson, Anna Mae, 1H	Kress
Roussel, W. A., 2E	Brownwood
Rowland, Virgil, 2L	Anton
Rowley, Theodore, 1E	Lubbock
Roy, Eugene F., 1L	Brownsville
Ruckman, Roy, 2L	Lubbock
Ruhmann, J. P., 3E	Ballinger
Runnels, Mildred, 1H	Prairie Hill
Rushing, A. J., 1L	Newlin
Rushing, Dorothy, 2L	Lubbock
Rushing, W. B., 3L	Lubbock

Russ, Mrs. Kate, 4L	Post
Russell, C. E., GS	Lubbock
Russell, Ethel Mae, 4L	Lubbock
Rutherford, Evelyn, 1L	Lubbock
Rutherford, Marie, 2L	Littlefield
Ruyle, Bruce, 1E	Thrift
Rylander, Dorothy, GS	Lubbock
Rylander, Russell, 1L	Cameron
Rylander, Ruth Mildred, 1L	Lubbock
Sale, Woodford, 2L	Stanton
Salter, Robert, 1E	Lubbock
Sampson, Mrs. Ethel, 3L	Lubbock
Sams, Kathleen, 2H	Benjamin
Sams, Van Earl, 2E	Benjamin
Sanders, A. C., 1L	Lubbock
Sanders, Edith, 2L	Anton
Sanders, J. Oran, 2E	Big Spring
Sansom, Myrtle, 3L	Lubbock
Sargent, Elvy, 1A	Ireland
Sawyer, Christova, 2H	Brownfield
Sayer, Mrs. Bess, 3L	Lubbock
Sayer, Bonnie, 3L	Lubbock
Sayer, Doris, 3L	Lubbock
Schober, Jake, 2L	Fort Worth
Schoggin, Howard, 2L	Lubbock
Schott, W. E., 1L	Silverton
Schrimsher, Jack, 1L	Lubbock
Schwalbe, Cecil, 3L	Jonesboro
Scofield, Arnold, 2E	Lubbock
Scoggin, Jessie M., 2H	Lubbock
Scott, Edward, 1L	Longview
Scott, T. Q., 2L	Lubbock
Seale, Allen, 2L	Eastland
Seales, Lela, 1L	Lorenzo
Seay, M. L., 1E	Houston
Seely, Frederick, 2E	Cleburne
Self, Allison, 3L	Crowell
Self, Clarence, 2A	Lubbock
Self, Hazel, 1L	Lamesa
Self, Rudolph, 2E	Norton, Kan.
Settle, Christine, 1L	Baird
Settle, L. Edwin, 1L	Abernathy
Sewell, Bill, 4L	Slaton
Seymour, C. Matt, 1L	Waco
Shafer, Mrs. Celia, 1H	Lubbock
Shallenburger, Ray, 1L	Logan, N. M.
Shamburger, Ray, 2E	Fort Worth
Sharp, Kitty, 1H	Levelland
Shaw, Christine, 4H	Crosbyton
Shaw, Davis, 1A	Snyder
Shaw, Floyd, 1E	Abernathy
Shaw, Marion, 1L	Lubbock
Shaw, Mary Sue, 1L	Lubbock
Shaw, Ross, 1A	Snyder
Shelley, Mary B., 2L	Lubbock

Shell, Freeman, 2E	Lubbock
Shepard, Janie Ruth, 3H	Hale Center
Shepard, John, 1A	Lubbock
Shepherd, Cordie Mae, 1L	Brownfield
Shepherd, Ronnie, 4E	Memphis
Sherrod, Mrs. B., 1H	Lubbock
Shipp, John, 1L	Mineola
Shirley, Cecil, 1L	Abernathy
Shotwell, Pete, 1L	Lubbock
Shropshire, May L., 1L	Lubbock
Shuman, Tobye, 1L	Lubbock
Shurtleff, Curtis, 1E	Colorado
Sides, Truitt, 1A	Lubbock
Simmons, Clifford, 3E	Santa Anna
Simmons, H. Duncan, 1L	Lubbock
Simmons, Layton, 1L	Miami
Simms, George, 1L	Panhandle
Simpson, L. Floyd, 1L	Lubbock
Simpson, Lida, 2L	Lubbock
Simpson, Vida, 2L	Lubbock
Sims, Aulsie, 1L	Lubbock
Singley, H. E., 1L	Lubbock
Skipping, Ernest, 1A	Zephyr
Slater, Reve, 1L	Axtell, Kan.
Slaughter, H. M., 1L	Big Lake
Slaughter, Horace, 1L	Big Lake
Slough, Julia, 1L	Wellington
Slover, George, 1E	Lubbock
Smalley, Hovel, 1E	Shallowater
Smallin, Dow, 3L	Abernathy
Smallwood, Virginia, 1L	Lubbock
Smart, Edwin, 1E	Lamesa
Smith, Adolphus, 3L	Brownfield
Smith, Arland, 1E	Colorado
Smith, Blake, 1E	Mexia
Smith, Dave, 1L	Lubbock
Smith, Dewitt, GS	Lubbock
Smith, Effie, 2H	Crosbyton
Smith, Elton, 3E	Longworth
Smith, Mrs. F. P., 1L	Lubbock
Smith, Faye, 2L	Post
Smith, Floyd, 1A	Stanton
Smith, Garland, 1L	Lubbock
Smith, Grace, 1L	Lubbock
Smith, Harold, 3L	Lubbock
Smith, Henry G., 1L	Sulphur Springs
Smith, J. B., 1L	Portales, N. M.
Smith, Jewell, 1L	Slaton
Smith, Lola, 1L	Wilson
Smith, Marcos, 2L	Brownsville
Smith, Margaret, 1L	Lubbock
Smith, Margie T., 4L	Longworth
Smith, Nora, 1H	Slaton
Smith, Orville, 1L	Lubbock
Smith, Oscar, 1L	Moran
Smith, Preston, 1E	Lamesa

Smith, Reuben, 1L	Kerens
Smith, Robert, 2A	Borger
Smith, Travis, 1E	Olney
Smith, W. A., 1L	Sulphur Springs
Smith, Wallace, 1L	Childress
Smith, Warren, 1A	O'Donnell
Smith, Wilmer, 1L	Tahoka
Smith, Wilson, 2E	Llano
Smithson, Mrs. F. E., 1L	Stanton
Sneed, Alton, 3L	Lubbock
Sneed, Louise, 2L	Dalhart
Snider, Joel, 2L	Snyder
Snider, Montez, 1H	Lubbock
Snider, Willie, 2H	Crosbyton
Snodgrass, N. K., 1A	Lubbock
Snow, Anna Ruth, 2L	Littlefield
Snyder, B. E., 3A	Moran
Snyder, Frances, 1L	Lubbock
Soape, Carrol, 1L	Idalou
Sollis, L. J., 1L	Sherman
Song, Laura Nockune, 2H	Korea
Southworth, H. R., 1L	Ablene
Sowell, Katheryn, 1L	Lubbock
Spacek, Clarence, 1L	Granger
Spacek, Edwin, 3A	Granger
Spann, Fern, 1H	Plainview
Spann, Gayle, 2L	Plainview
Sparkman, Colonel, 4A	Bonham
Sparkman, Wendell, 1E	Santa Anna
Sparks, Ruth, 3L	Lampasas
Spencer, Chas., 1A	Lubbock
Spencer, James, 1E	Athens
Spikes, Arphice, 2E	Lone Oak
Spikes, Wilda, 2H	Ralls
Spikes, Wilma, 2H	Ralls
Spilman, Ceoph, 1L	Silverton
Spivey, Robert, 4L	Jacksboro
Spraberry, Mary, 1L	Lubbock
Spraberry, R. R., 1L	Lubbock
Sprawls, Murl, 1L	Cisco
Spring, Mary, 1L	Friona
Spuhler, Ethel, 2H	Fort Worth
Spulher, Frank, 1L	Tucumcari, N. M.
Spurlock, Chester, 1L	Lubbock
Spurlock, Myrtle, 4L	Dave Creek, Ariz.
Spykes, Hazel, 1L	Hermleigh
Squyres, Paul, 1E	Lubbock
Stafford, Donovan, 1E	Lubbock
Stafford, Veta, 3L	Lubbock
Stamps, Roberta, 2L	Bells
Standefer, Gertrude, 1L	Meridian
Standlee, Nell M., 2L	Lubbock
Stanfill, J. T., 2E	Lubbock
Stansell, J. C., 1E	Lubbock
Stanton, Billy, 1E	Lubbock
Stanton, Lois, 1L	Lubbock

Starr, L. M., GS	Palestine
Steele, Roberta, 1H	Levelland
Steen, E. R., 1A	Graham
Stephens, Dorothy, 2H	Lubbock
Stephens, Earl, 1E	Sherman
Stephens, Olene, 1L	O'Donnell
Stephenson, Grace, 2L	Tulia
Sterrett, Philip, 1E	Abernathy
Stevens, Gerald, 1L	Corpus Christi
Stevens, Grady R., 2L	Plainview
Stevens, Louise, 1H	Quanah
Stevens, Raymon, 1L	Morton
Stevenson, Edward, 1L	Hermleigh
Stewart, Elizabeth, 1L	Lorenzo
Stewart, Evelyn, 3L	Lubbock
Stewart, R. H., 2L	Lockney
Stiles, Zona, 3L	Annona
Still, James, 1L	Ropesville
Stine, J. B., 2A	Amarillo
Stine, Lulu, GS	Henrietta
Stitt, Wm., 2E	Fort Worth
Stobaugh, Camille, 1H	Coleman
Stockard, Walter, 2E	Sulphur Springs
Stoffers, Fred, 1L	Afton, Wyo.
Stoffers, LaVerl, 1L	Afton, Wyo.
Stokes, Arledge, 1E	Abilene
Stokes, Erma, 2L	Lubbock
Stone, F. H., 2E	Panhandle
Stone, Haskell, 1L	Haskell
Stone, Murrie, 1L	Panhandle
Stone, Yone, 1L	Vernon
Storrs, Walter, 1E	Hannibal, Mo.
Stovall, Mrs. Minerva, 3L	Lubbock
Stover, Sherrod, 2A	Desdemona
Strange, James, 4L	Tulia
Strickland, J. D., 1A	Silverton
Strickland, Robert, 1L	Lubbock
Stringer, A. L., GS	Baileyboro
Stringer, Verlena, 1L	Vernon
Stults, Carl, 4E	Dallas
Sturgeon, Oletha, 1L	Hermleigh
Suits, Jeane, 1L	Lorenzo
Summers, Ann, 4L	Lubbock
Sutherland, Mrs. T. J., 1H	Lubbock
Sutphen, Curtis, 2E	Baird
Swain, Harriet, 1L	Crowell
Tabor, Elgie, 1L	Cansey, N. M.
Tadlock, J. H., 4E	Amarillo
Tannery, Luther, 1L	Lubbock
Tarlton, J. B., Jr., 1E	Lamesa
Tarrance, Leta, 1L	Lubbock
Tate, Geo., 1E	Colorado
Tate, George, 1A	Lubbock
Taulman, Parker H., 1L	Fort Worth
Taylor, Elliott, 4E	Lubbock
Taylor, Mrs. J. R., 1L	Lubbock

Taylor, Joe B., 1L	Big Spring
Taylor, Larry, 1E	Abilene
Taylor, Otis, Jr., 3L	Lubbock
Taylor, Robert, 3L	Stratford
Taylor, Wilton M., 1L	Childress
Teague, Alice Clarice, 2L	Lubbock
Teague, Grace Fern, 2H	Lubbock
Teague, Gussie L., GS	Lubbock
Teague, Joyce, 3H	Lubbock
Teague, Noel B., 1L	Lamesa
Teague, T. G., 4E	Howe
Teal, Benton, 1E	Lubbock
Teal, Bill, 2L	Enochs
Temple, Winnie, 3H	Lorenzo
Templeton, Idabel, 1L	Wellington
Templeton, Lois, 2L	Wellington
Terrell, Byron, 1E	Lubbock
Thomas, Alvin, 1E	Memphis
Thomas, Bonnie, 1L	Lubbock
Thomas, Harrison N., 3E	Eastland
Thomas, J. C., Jr., 1L	Holliday
Thomas, Jack, 1E	Lubbock
Thomas, Mary Louise, 1H	Lubbock
Thomas, William T., 1E	Lubbock
Thompson, Buster, 1L	Southland
Thompson, Carroll, 1L	Lubbock
Thompson, Claude, 1L	Lubbock
Thompson, Clyde, 1L	Lubbock
Thompson, Dewey, 1L	Stinnett
Thompson, Lola, 3H	Lubbock
Thompson, O'Brien, 4L	Abernathy
Thompson, Ruth Anna, 1H	Lubbock
Thompson, Tommy, 1A	Lubbock
Thompson, Willie May, 1L	Loraine
Thornton, I. J., 1A	Slaton
Thrush, Donald, 1E	Lubbock
Tibbs, Orville, 2L	Maude, Okla.
Tilroy, Elitabel, 3L	Lubbock
Timmons, J. W., Jr., 2L	Amarillo
Tiner, Virginia, 4L	Lubbock
Tinney, Willis, 3A	Lubbock
Tippen, Jack, 1L	Paducah
Tippitt, Faye, 1L	Gatesville
Tippitt, Linnie Inez, 1L	Tahoka
Tolbert, A. H., 1E	Lubbock
Tolk, Elizabeth, 1L	Amarillo
Tomme, Eustace, 2L	Lubbock
Tooley, Paul O., 1E	Van Alstyne
Townes, John Reed, 1L	Tahoka
Townsend, John T., 3E	Galveston
Travis, Eldred, 1E	Lamesa
Travis, Rowland B., 2L	Lubbock
Travis, Mrs. Rowland, 1L	Lubbock
Treadway, Mozelle, 4H	Brownfield
Tribble, Lester, 1L	Sherman
Trice, Richard, 1L	Waco

Trigg, Nina, 4L	Lubbock
Trostle, N. E., 3E	Lubbock
Trostle, Mrs. Nelly, 1H	Lubbock
True, Martin, 1E	Floydada
Tubbs, Fenner, 1L	Lubbock
Tucker, Gettys, 3L	Lubbock
Tucker, Woods, 2E	Ovalo
Tudor, Nan, 1L	Slaton
Turbiville, Eugene, 2A	Llano
Turner, Faye, 1L	Santa Anna
Turner, Gay, 1L	Santa Anna
Turner, Lacy, 2L	Claude
Turner, Wm. Jr., 2L	Brownwood
Twaddell, Jake, 1L	Claude
Tyler, Frances, 1L	Claude
Ullrich, Anton, 1E	Waco
Underwood, Hattie, 1H	Roch
Underwood, Joyce, 1H	Mill Creek, Okla.
Underwood, Margaret Elizabeth, 2H	Andrews
Underwood, W. R., 1E	Albany
Vallance, Mrs. Minnie, 1L	Lubbock
Vanderford, Christell, 1L	Gouldbusk
Vannerson, Jim, 4L	Tulia
Vannerson, Lucien, 3L	Tulia
Vannoy, Clifford D., 2L	Lubbock
Vannoy, Joellene, 4H	McLean
Vannoy, Maurice Pearce, 3A	Lubbock
Vannoy, Vance, 1E	Corpus Christi
Vardeman, Pearl, 1H	Richland Springs
Varley, Wallace, 3L	Collinsville
Varner, R. Weldon, 2L	Baird
Vars, Stanly, 2L	Tulia
Vaughan, Eural, 1A	Silverton
Vaughan, Mrs. J. B., 4L	Lubbock
Vaughan, Leroy, 4L	Lubbock
Vaughn, Clovis L., 4L	Levelland
Vaughn, Donna, 3H	Lubbock
Vaughn, Elberta, 3L	Tulia
Vick, Curtis, 2E	Cleburne
Vickers, John, 2L	Lubbock
Vinzant, Dennis, 4A	Lamesa
Voss, Geneva, 4L	Post
Wade, Elizabeth, 1L	Cooledge
Waggoner, Woodrow, 1E	Ranger
Waghorne, Arthur, 2E	Lubbock
Waghorne, Max, 1E	Lubbock
Wagoner, William, 2L	Groom
Walker, Annie L., 1L	Hale Center
Walker, Jessie, 1H	Lubbock
Walker, Robt., 1L	Kerens
Walker, Wm., 4L	Abilene
Walkup, Belva, 2L	Acme
Wall, T. F., 1E	Abilene

Waller, J. D., 4L	Pickton
Walling, Elwyn, 1L	Big Spring
Walls, Lena, 1L	Texhoma, Okla.
Ward, J. F., 4L	Lubbock
Ward, Keith, 1E	Paducah
Ward, Mary, 1L	Idaho Falls, Id.
Wardell, Richard, 2L	Avery
Wardell, Winfield, 4E	Avery
Ware, R. C., 4L	Lovington, N. M.
Warnock, Lovie, 4H	Fort Stockton
Washburn, Grady, 2L	Graham
Watkins, Eugene, 1E	Santa Anna
Watkins, Eva R., 2L	Seagraves
Watkins, Ira, 2L	Meadow
Watkins, Kathleen, 2L	Seagraves
Watkins, Lucille, 4L	Lubbock
Watkins, Mina D., 1L	Lubbock
Watkins, Roach, 1E	Lorenzo
Watkins, Vivian, 4L	Lorenzo
Watson, Archie Lee, 1E	Kirbyville
Watson, Mrs. E. A., 2L	Lubbock
Watson, Lula Ted, 2L	Lubbock
Watson, Tom, 2L	Lubbock
Wayland, Bob, 3E	Plainview
Weathers, Fredice, 3L	Big Spring
Weaver, Earl, 2E	Lubbock
Webb, Earl, 2E	Lubbock
Webb, H. P., 3E	Olton
Webb, Joe, 1L	Abernathy
Webb, Truman, 2L	Lubbock
Webb, Wayne, 1L	Hale Center
Webb, Wyatt, 1L	Borger
Weeden, W. C., 2E	Lone Oak
Weilenman, Donald, 3E	Lubbock
Weiss, Edwin, 1E	Plainview
Welch, Charles, 1L	Marshall
Welch, Estelle, 1L	Friona
Welch, Mark, 1L	Lubbock
Welder, John, 1E	Desdemona
Walls, Glenn, 1E	Caddo
Wesner, Ernest, 1L	San Angelo
West, Allethe, 2H	Dunn
West, Annie, 1H	Lubbock
West, R. S., 1L	Lubbock
West, S. G., GS	Benjamin
Westmoreland, Mrs. C., 1L	O'Donnell
Whaley, Marguerite, 1L	Estelline
Wharton, Leona, 2H	Lubbock
Whatley, Irene, GS	Lubbock
Wheeler, Marvin, 1L	Abernathy
Wheeler, Ralph, 1A	Lubbock
Wheeler, Wilburn, 3L	Abernathy
Wherry, Gerald, 1E	Altman
Wherry, John, 4A	Altman
White, Helen, 2H	Sudan
White, Jas., 1E	Post

White, Mrs. Lloyd, 3L	Lubbock
White, M. R., 3L	Wichita Falls
White, Mildred, 1L	Farmersville
White, Virginia, 2L	Wichita Falls
White, W. T., 3E	Lubbock
Whitehurst, J. G., 3E	Houston
Whitefield, Otho, 1A	Friona
Whitehead, Kirby C., 1L	Hondo
Whitehead, Norine, 1L	Lubbock
Whitehill, Cheville, 2L	Wichita Falls
Whiteside, James, 3L	Lubbock
Whitlock, Eldora, 2H	Lubbock
Whitlock, Mrs. Rob, 2L	Lubbock
Whitnack, Eugene, 1L	Lubbock
Wicker, Ardell, 1L	Slaton
Wiese, Raymond, 1L	Petersburg
Wiggins, Alpha, 2E	Lubbock
Wiggins, Mrs. Clara, 2L	Lubbock
Wiggins, Spurgeon, 1E	Hagerman, N. M.
Wiginton, Frances, 1L	Chillicothe
Wilbanks, Mary, 2H	Spearman
Wilder, Jo, GS	Red Oak, Iowa
Wilder, Wm., 1E	Clarendon
Wilhite, Genelle, 2L	Lubbock
Wilhite, Loyce, 2L	Hillsboro
Willie, Chas., 2E	Tyler
Wilkerson, N. B., 4L	Aledo
Wilkes, Floyd, 1E	Floydada
Wilkes, Orby, 3E	Floydada
Wilkins, Lois, 1L	Lubbock
Wilkins, Neal, 1E	Sudan
Wilkinson, Edna, 2L	Vernon
Wilks, Wilton, 3L	Plainview
Williams, Chas., 1L	Bonham
Williams, Chester, 3L	Clarendon
Williams, Curtis, 2A	Lubbock
Williams, Gladys, 1L	Lubbock
Williams, Grace, 3L	Lubbock
Williams, Hogue C., 4L	Hamilton
Williams, Hugh, 3L	Comanche
Williams, James, 4A	Lubbock
Williams, Leonard B., 1A	Lubbock
Williams, Luther, 3L	Luling
Williams, Mae, GS	Flomot
Williams, Mrs. Margaret H., 2L	Slaton
Williams, Marvin, 2A	Lubbock
Williams, Merle, 1L	Cross Plains
Williams, O. O., 2L	Montague
Williams, Rose, 1L	Pelican, La.
Williams, Samuel, 1L	Stamford
Williams, Mrs. Vivian, 4L	Lubbock
Williamson, Mrs. B. G., 1L	Lubbock
Williamson, J. C., 1L	Lubbock
Williamson, Julian, 4L	Lubbock
Williamson, Ruby, 1H	Spur
Williamson, Silas, 2A	Lubbock

Willingham, Mrs. C. E., 4L	Lubbock
Willingham, Carl H., GS	Lubbock
Willis, Allie Mae, 1L	Lubbock
Willis, Anita, 1L	Lubbock
Willis, Bessie J., 1L	Wellington
Willis, Bonnie, 2H	Wellington
Willis, Brilla, 1L	Sweetwater
Willis, R. Vaughn, 2L	Brownwood
Willison, Mary Jane, 2L	Holliday
Wills, Hood, 1L	Fluvanna
Wilson, Alton, 1L	Knox City
Wilson, Curtis, 1E	Canton
Wilson, Dorothy, 3L	Lubbock
Wilson, Henrietta, 3H	Lubbock
Wilson, Raymond, 1L	Byers
Wilson, Sylva, GS	Lubbock
Wilson, Thelma, 1L	Slaton
Wilson, Wm., 2E	Fort Worth
Wilson, Woodrow, 1L	Ballinger
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Windham, Juanelle, 1L	Tahoka
Winfree, Edwin, 2L	Mont Belvieu
Winslow, Josephine, 1L	Big Spring
Winslow, Reddie, 2H	Big Spring
Winstead, Helen, 4H	Jermyn
Winters, Bethel, 1H	Ralls
Wischkaemper, Annabel, 2L	Shamrock
Wischkaemper, Joe H., 2L	Shamrock
Wisdom, Evelyn, 1L	Lubbock
Witherspoon, Lynne, 1L	Dalhart
Witherspoon, Mose, 4E	Strawn
Witt, Paul, 3L	Texarkana
Wolf, Ilse, 2H	Stanford
Wolf, Nina Marie, 2L	Stanford
Wolfe, Glenn, 2E	Lefors
Wolfe, Ruth, 2H	Hereford
Wolfforth, Louise, 4L	Lubbock
Womack, Gene, 1E	Mexia
Womack, Helen, 4L	Roaring Springs
Womack, Irma, 1L	Colorado
Womack, Leon, 2L	Clovis, N. M.
Womack, Winnie, 4H	Anson
Wood, Helen, 1H	Lubbock
Wood, Mark, 3E	Childress
Wood, Paul, 1L	Canadian
Woodburn, A. C., Sr., 1A	Portales, N. M.
Woodburn, Arthur, 2L	Portales, N. M.
Woodruff, Arthur, 2L	Shallowater
Woods, Clarence, 2L	Lubbock
Woodson, Mary E., 2L	Lubbock
Woodward, Bob, 1L	Amarillo
Woody, O. A., 2A	Littlefield
Wooldridge, F. A., 4L	Plainview
Worley, Cecil, 4E	Snyder
Worley, Evelyn, 1H	Snyder

Worley, L. B., 4L	Snyder
Worley, O. T., 1L	Lubbock
Wren, Dennis, 1L	Lubbock
Wright, Carl, 1E	Dallas
Wright, Curtis, 1E	Burkburnett
Wright, George, 1L	Raymondville
Wright, Jack, 1E	Silverton
Wright, Lallah, 1L	Big Spring
Wright, Rex, 1L	Lubbock
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Young, Jesse, 1A	Cotulla
Young, Mrs. Nina, 1H	Roby
Young, Rhea, 2E	Wichita Falls
Yowell, LaVerne, 2L	Paducah
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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.