

BULLETIN
OF THE
**Texas Technological
College**

PUBLISHED MONTHLY

Vol. X.

June, 1934

No. 5



NINTH ANNUAL

CATALOGUE NUMBER

1933-1934

WITH

ANNOUNCEMENTS FOR 1934-35

TEXAS TECHNOLOGICAL COLLEGE

Lubbock, Texas

Issued monthly by The Texas Technological College, Lubbock,
Texas. Entered as second-class matter, December 24, 1924,
at the Postoffice, at Lubbock, Texas, under the Act
of August 24, 1912

COLLEGE CALENDAR

TENTH ANNUAL SESSION

1934

October 1-2, Monday-Tuesday. Entrance examinations and registration of all students.

October 3, Wednesday. Fall semester classes begin, 8:00 a. m.

October 3-4, Wednesday-Thursday. Freshman orientation will consist of one hour lecture each day at 11:00 a. m.

October 5, Friday. Open house for all students by the churches of Lubbock.

October 7, Sunday. Annual opening sermon for the College, 8:00 p. m., College Gymnasium.

October 9, Tuesday. Opening convocation for all students and faculty, College Gymnasium, 11:00 a. m.

October 10, Wednesday. Last day students may register for full work.

October 12, Friday. Reception to student body by President and Mrs. Knapp and the Administrative Council. Women's Dormitory, 8:00 p. m.

October 17, Wednesday. Last day students already registered may add or change a course.

October 17, Wednesday. Last day students may register in fall semester except by special permission of the Administrative Council.

November 28, Wednesday. Mid-semester reports due in Registrar's Office, 5:00 p. m.

November 29, Thursday. Thanksgiving—a holiday. Classes will be continued on November 30 and December 1.

December 21, Friday. Christmas holidays begin, 5:00 p. m.

1935

January 1, Tuesday. Classes resumed, 8:00 a. m.

February 1, 2, 4, 5, 6, and 7, Friday-Thursday. Final examinations for the first semester.

February 8-9, Friday-Saturday. Registration for the second semester.

February 11, Monday. Second semester classes begin, 8:00 a. m.

February 19, Tuesday. Last day students may register for the second semester except by special permission of the Administrative Council, and last day students may add or change a course.

April 4, Thursday. Mid-semester grades due in Registrar's Office, 5:00 p. m.

April 19-20, Friday-Saturday. Easter vacation.

May 27-31, Monday-Friday. Senior examinations.

May 31, Friday. President's reception to graduating class and faculty.

June 2, Sunday. Baccalaureate sermon.

June 3, Monday. Graduating exercises.

June 4-8, Tuesday-Saturday. Final examinations for juniors, sophomores, and freshmen.

June 4, Tuesday. Annual meeting of the Board of Directors.

June 10, Monday. Summer session begins.

CALENDAR

1934

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

1935

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

BOARD OF DIRECTORS

OFFICERS OF THE BOARD

CLIFFORD B. JONES, Chairman Spur
ROSCOE WILSON, Vice-Chairman Lubbock
MRS. EMMA G. MEHARG, Treasurer Plainview
W. T. GASTON, Secretary Lubbock

MEMBERS OF THE BOARD

Term Expires 1935

JOHN A. HULEN Fort Worth
R. A. STUART Fort Worth
JOHN W. CARPENTER Dallas

Term Expires 1937

CLIFFORD B. JONES Spur
ROSCOE WILSON Lubbock
DENNIS ZIMMERMANN Tulia

Term Expires 1939

MRS. JOHN A. HALEY Midland
MRS. EMMA G. MEHARG Plainview
JOE T. SNEED Amarillo

COMMITTEES OF THE BOARD

Executive Committee

JOHN W. CARPENTER, Chairman
ROSCOE WILSON JOHN A. HULEN

Building Committee

JOHN A. HULEN, Chairman
JOHN W. CARPENTER R. A. STUART

Local Affairs Committee

ROSCOE WILSON, Chairman
MRS. EMMA G. MEHARG JOE T. SNEED

Finance Committee

R. A. STUART, Chairman
MRS. JOHN A. HALEY DENNIS ZIMMERMANN

Legislative Committee

DENNIS ZIMMERMANN, Chairman
JOHN A. HULEN JOE T. SNEED
MRS. JOHN A. HALEY

OFFICERS OF ADMINISTRATION

The first date after the title indicates the year of first appointment to any position in the institution; the second, the year of appointment to present rank.

BRADFORD KNAPP, B. S., LL. B., D. Agr., *President*, 1932.

Office, 213, Administration Building.

OTTO VINCENT ADAMS, B. S. in C. & I. E., M. S. E., *Dean of the Division of Engineering*, 1927, 1932.

Office, 202, Engineering Building.

ARTHUR HENRY LEIDICH, B. S., M. S., *Dean of the Division of Agriculture*, 1925.

Office, 102, Agriculture Building.

JAMES MARCUS GORDON, B. A., M. A., LL. D., *Dean of the Division of Arts and Sciences and Dean of Men*, 1925.

Office, 211, Administration Building.

MARGARET WATSON WEEKS, B. S., M. S., *Dean of the Division of Home Economics*, 1925.

Office, 101, Home Economics Building.

MARY WOODWARD DOAK, B. A., M. A., *Dean of Women*, 1925.

Office, 102, Administration Building.

WILLIAM THOMAS GASTON, *Business Manager and Secretary of Board of Directors*, 1929.

Office, 105, Administration Building.

WARREN PERRY CLEMENT, B. A., M. A., *Registrar*, 1926, 1927, 1933.

Office, 106, Administration Building.

WILLIAM BRYAN GATES, B. S., M. A., Ph. D., *Assistant Dean of the Division of Arts and Sciences*, 1925, 1933.

Office, 305, Administration Building.

OFFICERS OF INSTRUCTION

Names arranged alphabetically in groups. The first date after the title indicates the year of first appointment to any position in the institution; the second, the year of appointment to present rank.

BRADFORD KNAPP, *President*, 1932.

B. S., Vanderbilt; LL. B., Michigan; D. Agr., Maryland.

PROFESSORS

WILLIAM HENRY ABBITT, *Professor of Physics*, 1926.

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

OTTO VINCENT ADAMS, *Dean of Engineering and Professor of Civil Engineering*, 1927, 1932.

B. S. in C. & I. E., Colorado Agricultural College; M. S. E., Michigan.

ALBERT BARNETT, *Professor of Education*, 1933.

B. S., M. A., Ph. D., Peabody College.

JULIEN PAUL BLITZ, *Professor and Head Department of Music*, 1934.

Laureate cum Laude, Royal Government Conservatory, Ghent, Belgium.

CARL DEWEY BRANDT, *Professor and Head Department of Textile Engineering*, 1929.

B. T. E., Lowell Textile Institute.

CHARLES V. BULLEN, *Professor and Head Department of Electrical Engineering*, 1932.

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

ALLAN LORAIN CARTER, *Professor and Head Department of English*, 1927.

B. A., Clark; M. A., Northwestern; Ph. D., Pennsylvania.

PETER WILLIS CAWTHON, *Professor and Head Department of Physical Education for Men*, 1930.

Southwestern University.

BENJAMIN FRANKLIN CONDRAY, JR., *Professor and Head Department of Economics and Business Administration*, 1926, 1927.

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

WILLIAM MOORE CRAIG, *Professor of Chemistry*, 1926.

B. A., M. A., Southwestern; M. A., Texas; Ph. D., Harvard.

CHARLES ALBERT DAVIS, *Professor of Military Science and Tactics*, 1931.

Colonel 131st Field Artillery; Colonel Field Artillery Section Officers Reserve Corps; Graduate Ft. Sill Field Artillery School; Graduate Command and General Staff School, Fort Leavenworth.

MARY WOODWARD DOAK, *Dean of Women and Professor of English*, 1925.

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

CHARLES DUDLEY EAVES, *Professor of History*, 1925.

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

JOHN ORVAL ELLSWORTH, *Professor and Head Department of Agricultural Economics and Farm Management*, 1928.

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

MABEL DEANE ERWIN, *Professor and Head Department of Clothing and Textiles*, 1926.

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

ARTHUR WILSON EVANS, *Professor and Head Department of Education and Psychology*, 1925.

B. A., Oxford College; M. A., Ph. D., Texas.

GUS LEE FORD, *Professor and Head Department of History*, 1925, 1933.

B. A., M. A., Southern Methodist University.

RAYMOND ERNEST GARLIN, *Professor of Education and Psychology*, 1927.

B. A., M. A., Ph. D., Texas.

ENOCH FRANKLIN GEORGE, *Professor and Head Department of Physics*, 1925.

B. S., Valparaiso University; B. A., M. A., West Virginia; Ph. D., Ohio.

HARRY FREDERICK CODEKE, *Professor and Head Department of Mechanical Engineering*, 1930.

B. S., M. E., M. S., Illinois.

ROBERT CABANISS GOODWIN, *Professor and Head Department of Chemistry and Chemical Engineering*, 1930.

B. A., Howard Payne; M. A., Texas; Ph. D., Harvard.

JAMES MARCUS GORDON, *Dean of Division of Arts and Sciences and Dean of Men; Acting Head Department of Philosophy and Sociology*, 1925, 1933.

B. A., Trinity; M. A., Chicago; LL. D., Trinity.

WILLIAM CURRY HOLDEN, *Professor of History and Anthropology and Director of Archeological Research*, 1929, 1933.

B. A., M. A., Ph. D., Texas.

WILLIAM ARTHUR JACKSON, *Professor and Head Department of Government*, 1925.

B. A., Baylor; M. A., Chicago; Ph. D., Iowa.

FLORIAN ARTHUR KLEINSCHMIDT, *Professor and Head Department of Architecture and Allied Arts*, 1928.

B. S. in Arch., Minnesota; M. in Arch., Harvard; Diplome d'Architecture, Ecole des Beaux Arts Americaine, Fontainebleau, France.

ARTHUR HENRY LEIDIGH, *Dean of Agriculture and Professor of Agronomy*, 1925.

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

JONNIE HEMPHILL MCCRERY, *Professor and Head Department of Foods and Nutrition*, 1925.

B. S., M. A., Columbia.

SETH SHEPARD MCKAY, *Professor of History*, 1928.

B. A., M. A., Texas; Ph. D., Pennsylvania.

CLARENCE SIMPSON MAST, *Professor of Physics*, 1925.

B. S., M. A., Ohio Wesleyan University.

JAMES NEWTON MICHIE, *Professor and Head Department of Mathematics*, 1925.

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

RUFUS ARTHUR MILLS, *Professor of English*, 1926.

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

JAMES HAROLD MURDOUGH, *Professor and Head Department of Civil Engineering*, 1925, 1927.

S. B. in C. E., Massachusetts Institute of Technology; M. S. E., Michigan.

LEROY THOMPSON PATTON, *Professor and Head Department of Geology and Geological Engineering*, 1925.

B. A., Muskingum; B. S., Chicago; M. S., Ph. D., Iowa.

ANNAH JO PENDLETON, *Professor of Speech*, 1927.

B. A. and Diploma in Oratory, Texas Christian University; Diploma, School of Speech, Northwestern University; M. A., Iowa.

RUTH PIRTLE, *Professor and Head Department of Speech*, 1925, 1928.

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

CHARLES BLAISE QUALIA, *Professor of Spanish and Head Department of Foreign Languages*, 1925, 1932.

B. A., M. A., Ph. D., Texas.

EDWARD LOOMAN REED, *Professor of Botany*, 1926, 1929.

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

KENNETH MILLER RENNER, *Professor and Head Department of Dairy Manufactures*, 1927, 1931.

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

CLIVE EARNEST RUSSELL, *Professor of Horticulture and Head Department of Plant Industry*, 1928, 1933.

B. S., Michigan State College; M. S., Oregon State College.

GEORGE SMALLWOOD, *Professor of English*, 1925.

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

RUSSELL T. SMITH, *Professor of Physical Education for Men*, 1930.

B. A., Austin College.

FRED WINCHELL SPARKS, *Professor of Mathematics*, 1926, 1928.

B. A., M. A., Southwestern; M. S., Ph. D., Chicago.

OSCAR A. ST. CLAIR, *Professor and Head Department of Industrial Engineering, Engineering Drawing, and Industrial Education, 1934.*

B. S. in E. E., Armour Institute of Technology.

WENZEL LOUIS STANGEL, *Professor and Head Department of Animal Husbandry, 1925.*

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

RICHARD ARTHUR STUDHALTER, *Professor and Head Department of Biology, 1925.*

B. A., Texas; M. A., Washington University; Ph. D., Chicago.

RALPH SYLVESTER UNDERWOOD, *Professor of Mathematics, 1927, 1931.*

B. A., M. A., Minnesota; Ph. D. Chicago.

MARGARET WATSON WEEKS, *Dean of Home Economics and Professor of Nutrition, 1925.*

B. S., M. S., Columbia.

ASSOCIATE PROFESSORS

VIRGIL BALLARD, *Associate Professor of Physical Education for Men, 1934.*

B. A., Austin College.

ALBERT BENJAMIN CUNNINGHAM, *Associate Professor of English, 1929, 1930.*

B. A., Muskingum; B. D., Drew University; M. A., Ph. D., New York.

VENTON LEVY DOUGHTIE, *Associate Professor of Mechanical Engineering, 1930, 1932.*

B. S. in M. E., Texas.

BONNIE K. DYSART, *Associate Professor of Education, 1927, 1928.*

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

RUPERT WINTHROP FOWLER, *Associate Professor of English, 1926.*

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

WILLIAM BRYAN GATES, *Associate Professor of English and Assistant Dean of Division of Arts and Sciences, 1925, 1933.*

B. S., Millsaps; M. A., Vanderbilt; M. A., Michigan; Ph. D. Pennsylvania.

JOHNNYE GILKERSON, *Associate Professor and Head Department of Physical Education for Women, 1925, 1927, 1934.*

B. B. A., Texas; M. A., University of Southern California.

WILLIAM FRANK HELWIG, *Associate Professor of Electrical Engineering, 1928, 1933.*

B. S. in E. E., Minnesota; M. S., Texas; E. E., Minnesota.

CARL HENNINGER, *Associate Professor of Modern Languages*, 1926, 1929.

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

HARRY HILL, *Associate Professor of Physics*, 1926.

B. A., M. A., West Virginia.

MILTON FREDERIC LANDWER, *Associate Professor of Biology*, 1927.

B. S. Northwestern; M. A., Nebraska.

BESSIE BEAKLEY LEAGUE, *Associate Professor of Biology*, 1926, 1927.

B. A., M. A., Ph. D., Texas.

CYRIL LUKER, *Associate Professor of Vocational Agriculture and Itinerant Teacher Trainer*, 1933.

B. S., Texas A. & M.

FLORA POWEL MCGEE, *Associate Professor of English*, 1925.

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

RAY C. MOWERY, *Associate Professor of Animal Husbandry*, 1926.

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

HAROLD REESE NISSLEY, *Associate Professor of Economics and Business Administration*, 1927.

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

MONTPELL ERNEST OGDON, *Associate Professor of Government*, 1929.

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

HARDISON CECIL PENDER, *Associate Professor of Government*, 1926, 1927.

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

ELLSWORTH HARVEY PLANK, *Associate Professor of Government*, 1933.

B. S., University of Oregon

WILBER IRVING ROBINSON, *Associate Professor of Geology*, 1928.

B. A., M. S., Michigan; Ph. D., Yale.

CLARENCE CARL SCHMIDT, *Associate Professor of Physics*, 1927.

B. A., Cornell; M. A., Ph. D., Illinois.

VALERIE SCHNEIDER, *Associate Professor of Chemical Engineering*, 1934.

B. S., M. S. in Ch. E., Texas; D. Sc., Massachusetts Institute of Technology.

JAMES THOMAS SHAVER, *Associate Professor of Education*, 1927.

B. S., Sam Houston State Teachers College; M. A., Columbia.

EDGAR GREER SHELTON, *Associate Professor of Architecture*, 1925.

B. S. in Architecture, Texas.

MERRILL A. STAINBROOK, *Associate Professor of Geology*, 1927, 1928.

B. A., M. S., Ph. D., Iowa.

ALAN LANG STROUT, *Associate Professor of English*, 1928, 1930.

B. A. Dartmouth; M. A., Chicago; M. A., Wisconsin; Ph. D., Yale.

EARL L. THOMPSON, *Associate Professor of Mathematics*, 1928, 1931.

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

HARRIET TILDEN, *Associate Professor of Applied Arts*, 1931.

B. S., Iowa State College; M. A., Columbia.

MAYME LUCINDA TWYFORD, *Associate Professor of Foods and Nutrition*, 1928.

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

FRANCES WHATLEY, *Associate Professor of Spanish*, 1925.

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

BELL I. WILEY, *Associate Professor of History*, 1934.

B. A., Asbury College; M. A., Kentucky; Ph. D., Yale.

GEORGE W. WOODBURY, *Associate Professor of Horticulture*, 1931.

B. S., M. S., Michigan State College.

ASSISTANT PROFESSORS

JAMES G. ALLEN, *Assistant Professor of English*, 1927, 1931.

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

HERSHEL McDONALD BELL, *Assistant Professor of Agronomy*, 1927, 1932.

B. S., New Mexico A. & M.

EDNA WALKER BUSTER, *Assistant Professor of Clothing and Textiles*, 1927, 1930.

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

MRS. GEORGIA WILSON DINGUS, *Assistant Professor of Latin*, 1929, 1931.

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

EUNICE JOINER GATES, *Assistant Professor of Spanish*, 1925, 1931.

B. A., M. A., Southwestern; M. A., Michigan; Ph. D., Pennsylvania.

FRED G. HARBAUGH, *Assistant Professor of Animal Husbandry*, 1927.

B. S., D. V. M., Iowa State College

JOHN COYNE HARDGRAVE, *Assistant Professor of Mechanical Engineering*, 1926, 1933.

MAURICE EARL HEARD, *Assistant Professor of Textile Engineering*, 1928, 1932.

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

ELLIS RICHARD HEINEMAN, *Assistant Professor of Mathematics*, 1928, 1930.

B. A., M. A., Wisconsin.

CECIL HORNE, *Assistant Professor of English and Journalism and Head of Information Bureau*, 1926, 1929.

B. A., Baylor; B. A., Yale.

ADA VIVIAN JOHNSON, *Assistant Professor of Foods and Home Economics Education*, 1928, 1930.

B. S., Southwest State Teachers College; M. A., Columbia.

KENNETH LESLIE KNICKERBOCKER, *Assistant Professor of English*, 1926, 1933.

B. A., M. A., Southern Methodist; Ph. D., Yale

LONNIE LANGSTON, *Assistant Professor of Mathematics*, 1928, 1930.

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

FITZHUGH LEE MCREE, *Assistant Professor of Civil Engineering*, 1927, 1928.

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

DONALD VAN DALE MURPHY, *Assistant Professor of English*, 1926, 1928.

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

ZELLA E. RIEGEL, *Assistant Professor of Physical Education for Women*, 1928.

B. A., Central College.

TRENT CAMPBELL ROOT, *Assistant Professor of Economics and Business Administration*, 1932.

B. A., Baylor; M. B. A., Harvard.

RAYMOND GILBERT SIDWELL, *Assistant Professor of Geology*, 1928.

B. A., M. A., Ph. D., Iowa.

WILLIAM MACKEY SLAGLE, *Assistant Professor of Chemistry*, 1926, 1928.

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

WILLIAM EZRA STREET, *Assistant Professor of Engineering Drawing*, 1928, 1934.

B. S. in E. E., M. A., Texas Technological College.

ALFRED BELL STREHLI, *Assistant Professor of Foreign Languages*, 1928.

B. A., B. S., M. A., Ohio.

DEWEY O. WILEY, *Assistant Professor of Music and Director of Band, 1934.*

B. Mus., Simmons; Pupil of Carl Venth, E. Clyde Whitlock, Jacques Gordon.

INSTRUCTORS AND ASSISTANTS

LOUISE CRAWFORD ALLEN, *Instructor in Journalism and Assistant in Information Office.*

B. A., Southern Methodist University.

*MRS. G. N. ATKINSON, *Instructor in Engineering Drawing.*

ARCHIE J. BAHM, *Instructor in Philosophy and Sociology, 1934.*

B. A., Albion; M. A., Ph. D., Michigan.

LLOYD C. CHRISTIANSON, *Instructor in Mathematics, 1928, 1931.*

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

ROGER CLAPP, *Instructor in Mechanical Engineering, 1934.*

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

FRANCIS CONNOR COOK, *Instructor in French, 1933.*

B. A., M. A., Texas

HARRY M. CRAIN, *Instructor in Journalism and Superintendent of Printing Plant, 1934.*

B. A., Bethel; M. A., Texas Technological College.

LUCILLE AVO POWELL GILL, *Instructor in English, 1926.*

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

ELIZABETH E. HAWLEY, *Part-Time Instructor in Applied Arts, 1934.*

B. A., Oberlin College; M. A., Columbia.

CARRIE HODGES, *Instructor in Foods and Nutrition, 1933.*

B. A., Rice; B. S., Stephen F. Austin State Teachers College; M. S., Iowa State College.

RUTH HORN, *Instructor in English, 1932, 1933.*

B. A., M. A., Texas Technological College.

EDNA N. HOUGHTON, *Instructor in Architecture, 1932, 1933.*

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

J. W. JACKSON, *Instructor in Government, 1929.*

B. A., M. A., Texas Technological College.

RALPH ELTON LEWIS, *Instructor in Mechanical Engineering, 1931.*

B. S. in M. E., Iowa; M. S. in M. E., Illinois.

JOSEPHINE LOONEY, *Instructor in Clothing and Textiles, 1933.*

B. S., Minnesota; M. A., Columbia.

MRS. JESSE MARCUS MARSHALL, *Instructor in Chemistry, 1925.*

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

*Spring 1934 only.

GORDON WIGHT PARKHILL, *Instructor in Civil Engineering*, 1932.
B. S. in C. E., Texas A. & M.

MART G. PEDERSON, *Instructor in Dairy Manufactures*, 1932.
B. S., Texas Technological College.

CONNER COLUMBUS PERRYMAN, *Instructor in Engineering Drawing*, 1929.
B. S., North Texas State Teachers College.

ARTHUR PRICHARD, *Creamery Superintendent and Instructor in Dairy Manufactures*, 1933, 1934.
B. S., Iowa State College.

JESSE Q. SEALEY, *Instructor in Biology* 1928.
B. A., M. A., Texas.

GUSSIE LEE TEAGUE, *Instructor in English*, 1926.
B. A., Oklahoma; M. A., Colorado.

MAMIE WOLFFARTH, *Instructor in Typewriting and Stenography*, 1928, 1930.
B. A., M. A., Texas Technological College.

INSTRUCTOR IN SPECIAL DEPARTMENT

(Available to students, but not paid from College Funds)

WILLIAM FRANCIS FRY, *Biblical Literature. Under the auspices of the Baptist General Convention of Texas*.
B. A., Wake Forest; M. A., D. D., Simmons.

DEPARTMENT OF EXTENSION

JULIUS F. McDONALD, *Director of Extension*, 1926.
B. A., Baylor; B. A. Yale; M. A., Chicago.

LIBRARY STAFF

ELIZABETH HOWARD WEST, *Librarian*, 1925.
B. A., Mississippi State College for Women; B. A., M. A., Texas.

EMMA LILLIAN MAIN, *Assistant Librarian*, 1926.
B. A., North Texas State Teachers College.

MRS. OLIVE PRICE HOLDEN, *Instructor in Freshman Orientation, Instructor in the Use of the Library in Research, and Research Assistant in the Library*, 1929, 1931.
B. A., Texas.

LULU STINE, *Cataloger*, 1930.
B. A., Texas.

OTHER EMPLOYEES

BESS BOVERIE, *Stenographer in Registrar's Office*, 1927, 1930.

FLOSSIE BURKHALTER, *Secretary to the Business Manager*, 1932.

MRS. ELEANOR M. CHITWOOD, *Assistant to the Dean of Women*, 1927.

FLORENCE EVELYN CLEWELL, *Assisiant Registrar*, 1929, 1933.

MARY JO COLE, *Secretary to the Purchasing Agent*, 1928.

WILLIAM CONNER COLE, *Manager of the College Bookstore*, 1927.

GEORGINA CONNER, *Secretary to the Dean of Engineering*, 1931, 1932.

RUTH MAY CRAIG, *Chief Clerk in Registrar's Office*, 1929.

SETH THOMAS CUMMINGS, *Purchasing Agent*, 1927.

OPHELIA STEELE ELLIS, *Cashier*, 1926, 1928.

ANNA BURT GIBSON, *Secretary to the Dean of Home Economics*, 1933.

JAMES H. GRIMSLEY, *Superintendent of Buildings and Grounds*, 1928.

PEARL HARRISON, *Secretary to the President*, 1927, 1928.

DEAN W. KUYKENDALL, *Assistant to the President*, 1934.

GUS WOOD MCCLEARY, *Chief Bookkeeper*, 1931.

RAY MOORE, *Assistant in Information Office*, 1934.

JUANITA POOL, *Secretary to the Dean of Agriculture*, 1927.

EDGAR CLINTON PRIEST, *Assistant Bookkeeper*, 1930.

ALICE MUSE ROGERS, *Secretary to the Dean of Arts and Sciences*, 1931, 1932.

FLORENCE ELIZABETH ROGERS, *Secretary in the Business Office*, 1931.

DOROTHY JANE RYLANDER, *Librarian of Engineering Division and Secretary to Engineering Faculty*, 1932.

JOHN KINSMAN WHERRY, *Superintendent of Farms*, 1932.

SYLVA WILSON, *Secretary to the Dean of Women*, 1928.

FACULTY COMMITTEES

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

The College Administrative Council: The President, the Deans, the Registrar and the Business Manager. The Administrative Council has charge of general matters of scholarship, courses of study, discipline, admission, etc.

1. Daily Schedule: Schmidt, Ellsworth, Murdough, Erwin, Fowler.
2. Registration: Clement, Godeke, Condray, Russel, Buster.
3. Housing for Men: Horne, Gates, Hardgrave, McKay, Woodbury.
4. Student Help: Horne, Smallwood, McRee, Mast, Mowery., Tilden.
5. Entrance Examinations: Sparks, Parkhill, Twyford, Bell, Sidwell.
6. Social Activities: Doak, Weeks, Cunningham, Mowery, Allen, Doughtie.
7. Student Publications: Mills, Horne, Harbaugh, Johnson, Helwig.
8. Scholarship Awards: Patton, McCrery, Harbaugh, Brandt, Michie.
9. Student Religious Life: Dingus, McCrery, Renner, Bullen.
10. General Catalogue: Leidigh, Gordon, Adams, Weeks, Clement.
11. Artists Course: Mills, Murphy, Murdough, Blitz, Johnson, Pirtle.
12. Summer School: Gordon, Adams, Leidigh, Weeks, Evans.
13. Discipline, Men: Gordon, Leidigh, Adams.
14. Discipline, Women: Doak, Weeks, Pirtle.
15. Athletic Council: Stangel, Jackson, Condray, Godeke, Cawthon, Smith, Jackson (Alumni Representative), Curfman (Student Representative).
16. Military Affairs: Condray, George, Horne, Heard, Harbaugh.
17. Extension: Gordon, Leidigh, Adams, Weeks, Jackson, Evans.
18. Graduate Studies: Jackson, Ellsworth, Murdough, Erwin, Goodwin, Clement, and the Dean of the Division in which major subject is taken.
19. The Committee on Advanced Standing in each Division consists of the Dean of the Division, the Registrar of the College, and the Head of the Department or Departments in which the major work is to be taken.
20. The Faculty Advisers in each Division will be appointed by the Dean. Automatically, the Head of the Department is the Faculty Adviser for students majoring in his department. Each Dean may appoint from his faculty, special Advisers for freshmen.

FOREWORD

BY PRESIDENT BRADFORD KNAPP

The task of selecting your college course at any college or university is a difficult one. In common with other educational institutions, this college publishes a catalogue. Such a publication presents so much material and so varied a program that the parents, new students in particular, and persons generally have difficulty in knowing how to select a course of study. The purpose of this Foreword is to assist the reader in knowing what is presented in the college and how to select your course of study.

Vocation. The first task you have is to determine, if possible, what you intend to do in the world. Your course of study in college ought to be closely related to the choice of your occupation. This will depend upon your own inclinations, your desires, your aptitude, and your attitude toward certain studies. Remember always that there is a place for the man or woman who is well trained in any vocation. A little later in this Foreword, I shall outline what I conceive to be the fundamentals of a good education. *Read these before you make your selection.*

The Texas Technological College offers a wide range of opportunities for selecting work of a technical character.

In the Division of Agriculture will be found those courses which fit one to become a farmer, ranchman, livestock raiser, dairyman, dairy manufacturer, horticulturist, landscape architect, florist, a scientist in any of the lines associated with agriculture, agricultural extension worker, agricultural teacher, agricultural economist, agricultural leader, or to fill any one of the many positions in connection with the problems of production and distribution of agricultural products. It should be mentioned here that the merchant or the banker, who is expecting to operate in a country where agriculture is the basic industry, would be better equipped for his work by taking either an agricultural course with a major in agricultural economics, or by adding agricultural economics to a major in business administration.

In Engineering, the Texas Technological College presents courses which fit the student for the profession of an architect, architectural engineer, civil engineer, chemical engineer, commercial artist, electrical engineer, geological engineer, mechanical engineer, industrial engineer, textile engineer, textile chemist, textile designer, or specialist in other textile lines, in draftsmanship or in engineering

drawing. These lead to opportunities in construction and manufacturing, both large and small.

In Home Economics the training fits one for the greatest of all professions—that of rearing a family and managing a home, including problems of clothing the family, and the science of feeding the human race. In addition, students receive instruction which prepares them for such positions as: dieticians, managers of cafeterias, buyers and specialists in dry goods and foods establishments, teachers of home economics, and home demonstration agents.

In the general division known as the Division of Arts and Sciences, the College presents courses for men and women who expect to follow business pursuits as merchants, bankers, insurance agents, and many other business callings. The College has courses for the training of teachers, especially high school teachers, in any of the subjects taught at this institution. School principals and superintendents are especially provided for in the Department of Education. It is possible for one to become a specialist in chemistry, physics, geology, biology, bacteriology, or any one of the social sciences.

The College also furnishes a general college course, where no special vocation has been selected, by giving the student fundamental courses which may be used later as the foundation for some special line of work, such as law or medicine.

Stick to your course. When you have selected a course or vocation, remember that trained and experienced educators have set up the necessary studies you should take to fit yourself for your life work. Therefore, it is wise for you to take the course as it is outlined. Advisers have been appointed from the faculty, mainly consisting of the deans and heads of departments, who will be glad to counsel with you in the selection of your course. *Take your requirements as they come*, because every step in your course will lead to the proper understanding of more advanced courses. All through this catalogue you will find "prerequisites" mentioned. A "prerequisite" is a course which you are required to take before you can take a more advanced course in any subject. Do not attempt to take a more advanced course unless you have completed the prerequisite.

A college course has an orderly, progressive sequence from start to finish. Freshmen should take freshman subjects; sophomores, sophomore subjects; juniors, junior subjects; and seniors, senior subjects. Follow your outline.

Do not dodge courses because they are difficult. Your whole future may depend upon your taking and mastering a subject which seems difficult to you, but which is especially necessary if you

are to be trained properly, and which you will learn to master as your course proceeds. Do not skip around and hunt for easy courses.

A guide to a well-rounded education follows. In studying this catalogue, we believe it will be well if you keep in mind certain fundamental principles which will give breadth and scope to your college education. These elements enter into every course offered in this institution and unless you take advantage of all of them, you cannot obtain the full advantage of a complete college education. These elements constitute a broad type of education which will fit one for useful service in life. They are as follows:

First. You should obtain skill and knowledge in the use of the English language, not only because this is the outstanding mark of an educated person, but because it is the first and most important means of communicating ideas to others and understanding what others may write or say. No one can master a college or university course without knowing his own language.

Second. You should obtain a good knowledge of the history of our civilization in order that you may know through what experiences the human race has arrived at its present state of development and whence came the thoughts and ideals of our present time.

Third. You should acquire a thorough understanding of our government, how it is organized and how it functions, not only in the Nation and State, but in the locality. This is necessary in order that you may understand the responsibilities and obligations of citizenship and be prepared to exercise leadership as a citizen.

Fourth. You should receive training in the fundamentals of economics and sociology. We live in an economic age wherein every one should understand the laws of economics and how these laws and forces operate in an organized society. No college man or woman should be graduated in these days without a knowledge of these subjects for the reason that every one's life will be influenced greatly by economic and social forces.

Fifth. You should be prepared for life with some knowledge of health, hygiene, foods, nutrition, disease and their preventions. The world has made great advancement along these lines, but the importance of them needs to be emphasized more widely.

Sixth. Not every course should be taken for its pure utilitarian value. There is a broad culture in literature, the languages, history, the sciences, engineering, agriculture, or home economics, but special effort should be put forth for development of the esthetic side of your nature. You should avail yourself of every opportunity

to acquire this training in your college course through knowledge and appreciation of art; literature, languages, and the esthetic side of life. They will enable you to enjoy many of the things with which you come in contact throughout your life and will contribute to your happiness.

Seventh. In addition to all these, you should definitely train yourself for a life work in some technical or professional line which will fit you to perform a real service in an organized society. After college days are over, you are going to face a highly organized and complex civilization, with many opportunities for employment in a world where many different lines of service are open to those who are fitted to perform them well. We cannot all be teachers or lawyers or doctors—some must be farmers, scientists, engineers, technicians, business men, artists, builders, public officers, and even statesmen.

In all your college work, do not neglect to train all sides of your complex personality. Build your character while you are in college. Increase your respect for moral responsibility, your love of truth, your honesty of purpose. Develop a tolerant attitude toward others. Train yourself to be appreciative and cultivate your reverence for the finer spiritual side of life.

The Texas Technological College offers you a golden opportunity. However, the College cannot give you an education—you must come and fit yourself into college life, open your mind to receive instruction, cooperate fully with the teachers in the task of developing your own ability, not only to acquire knowledge, but to learn to think honestly and conscientiously, to reason, to know, to understand, and to create. Be a seeker for the truth and, above all, develop your common sense so that when you have finished college you will not only be educated, but well-balanced and thus able to take your place in a busy world to perform a real service.

GENERAL INFORMATION

The Texas Technological College at Lubbock was organized by authority of an act of the Thirty-Eighth Legislature of the State of Texas passed in 1923. This act authorized the establishing of a college west of the ninety-eighth (98th) meridian and north of the twenty-ninth (29th) parallel, which should be a coeducational college of the first-class, giving thorough instruction in technology, manufacturing, engineering branches, agriculture, home economics and also complete courses in "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."

Pursuant to this act of the Legislature, the Texas Technological College was located at Lubbock, Texas, its buildings erected, and its doors opened to students for the first time on September 30, 1925.

From an enrollment of 1,379 students the first year, the attendance has increased to over 5,100 students annually of all classifications. Practically all of these students are residents of Texas.

LOCATION

The College is located on the South Plains area of the State of Texas, approximately two hundred miles from the northern line of the Panhandle and more than three hundred miles northwest of the State Capitol. The elevation is 3,200 feet above sea level. Lubbock is in the midst of one of the richest and finest farming sections of the State of Texas. Lubbock County was the second largest cotton producing county in Texas in the year 1932. In addition, this entire territory is a great livestock country with extensive feeding of beef cattle, sheep, hogs, and a considerable dairy and poultry industry rapidly developing.

Lubbock is located on two railroad systems, the Fort Worth and Denver City and the Santa Fe, giving it excellent connections and good time schedules to most parts of the State. There are numerous automobile stage lines and hard-surfaced roads rapidly being completed to give this section full and adequate transportation facilities, connecting it with all parts of Texas.

The territory in which the College is located has grown in population slightly more than one hundred per cent in the last ten years. The City of Lubbock has grown very rapidly. At the present time it has a population of approximately 20,750 exclusive of

college students. The city is well supplied with pure water, a sewer system, modern hotels, splendid hospitals, and excellent churches. The public school system of Lubbock is one of the most progressive in the State of Texas and is supplied with adequate school houses and a capable teaching staff. These facts are of interest to parents who may wish to come to Lubbock with a family of children and who may wish to know of the full educational advantages of this section. The climate is typical of the South Plains area with its relatively high altitude, cool nights, abundant sunshine, and healthful conditions. There are very few insects, pests, and no mosquitoes—therefore, a total absence of malaria.

BUILDINGS AND GROUNDS

The Texas Technological College is supplied with modern buildings on an extensive campus with a large farm, all on one great body of land, located just at the western edge of the City of Lubbock. The campus comprises approximately 320 acres, leaving 1,688 acres of excellent farm land for the use of the Division of Agriculture of the College.

The plans for the physical development of the institution were carefully drawn and approved by its Board of Directors so as to promote orderly and careful building as the College grows and as the territory which it serves increases in population. The architecture is of the Spanish Renaissance.

The following are the principal buildings on the campus:

Administration Building, located at the south side of the main quadrangle of the campus, facing north; 60 by 300 feet, three stories in height; constructed of brick, with stone trimmings, tile roof, attractive towers at the east and west ends. At present there are located in this building the administrative offices of the College, including those of the President, Business Manager, and the Registrar, other business offices, Office of the Dean of Women, Office of the Dean of the Division of Arts and Sciences, the College Library, departmental offices, and classrooms of the Division of Arts and Sciences.

Engineering Building, located on the west side of the main quadrangle of the campus, facing east; a two-story building of brick and stone with floor space of approximately 52,000 square feet; modern and excellently equipped. In this building are located the Office of the Dean of the Division of Engineering, offices of Engineering faculty members, laboratories, classrooms, a large lecture room, drafting rooms, Engineering Library, and equipment consisting of approximately \$70,000 worth of machinery, apparatus, scientific instruments, and other equipment.

Textile Engineering Building, located at the north end of the main quadrangle, facing south; approximately 65 by 220 feet, two stories in height. It contains the offices, classrooms, laboratories, and machine rooms of the Department of Textile Engineering. The textile equipment is modern, consisting of all the necessary machinery for spinning, weaving, dyeing, and finishing cotton, wool, silk, and rayon on an institutional or instructional basis, and the necessary scientific apparatus for the various tests of these substances. All machinery is electrically driven.

Chemistry Building, located west and north of the Administration Building, facing north; a two-story building, 60 by 250 feet, with one wing extending back 40 feet. Although designed originally as the Chemistry Building, at the present time it houses the Departments of Chemistry, Biology, Geology, and Physics. It is adequately supplied with offices, classrooms, and extensive laboratories well equipped with scientific apparatus.

Agricultural Buildings, located southwest of the Administration Building. The Agricultural Building is a one-story, temporary office and classroom building, erected in 1927. In it are located the Office of the Dean and those of the members of the Agricultural faculty, and classrooms and laboratories for a part of the Division of Agriculture. Near this building is located the Stock Judging Pavilion, erected in 1925. This is a tile and stucco building containing a large arena and tiers of seats. Part of the building is used for classroom purposes, part for offices, and part for stock judging and as a place for large group assemblies, including farmers' meetings and meetings of visiting organizations.

Home Economics Building, located east of the Administration Building; 40 by 80 feet, two stories in height. The present building, representing only a portion of the ultimate plans for the Division of Home Economics, now contains the offices, classrooms, and laboratories for the Division of Home Economics.

Home Management House, a brick residence, two stories high, completely furnished and used as a laboratory for students in home management. It also serves as a social center for activities in the Division of Home Economics.

Gymnasium, erected in 1926;; a temporary frame structure with tile and stucco walls. It is used not only as a gymnasium, but as a general meeting place for students, and is the only building on the campus which will seat the student body and faculty. It contains offices, locker rooms, shower baths for physical education and athletics, and a playing floor, 50 by 90 feet, for basketball, gymnastics, and physical education. The seating capacity around the

playing floor is approximately 1,400. When the floor is fully seated at convocations and other gatherings, the building will accommodate 2,400.

Mechanical Engineering Shop Building, located north of the Textile Building; a one-story building of tile and stucco, 50 by 100 feet, containing pattern shops, wood shops, machine shops, and other shops for the work of the Department of Mechanical Engineering.

Heating Plant, erected in 1925 and enlarged in 1931; located north of the Textile Building. It supplies heat, water, and power for the entire campus.

Farm Buildings. Among the facilities used by the Division of Agriculture are the Greenhouse, 25 by 75 feet, with an independent heating plant, and used for laboratory work in horticulture and plant propagation; and the Dairy Barn, erected in 1925, with stanchions for forty cows, dressing rooms, feed rooms, and milk house. On the farm are also frame structures for housing livestock, and residences for the chief herdsman who have charge of the livestock.

Bookstore, located southeast of the Administration Building. The Bookstore is operated by the College for the purpose of supplying students with books, stationery, and other necessary supplies.

New Dormitories. By the opening of the fall semester, 1934-35, Texas Technological College will have ready for occupancy two new dormitories, one for men and one for women.

These dormitories are located on the campus. The cost of each dormitory is approximately \$325,000.00. They are of fire-proof construction, commodious, comfortable, and will be is every way attractive. There will be a dining room and kitchen connected with each dormitory. There will be fully adequate bath and toilet accommodations, hot and cold running water in every room, large dining room, and lounge or parlor to promote the social life of the students.

The dormitories will be operated by the institution itself and charge for board and room, which has not been fixed by the Board of Directors of the College yet, will be modest and in keeping with the average cost of rooms in the City of Lubbock.

The two buildings will house 320 students each and in every appointment be as attractive as a modern hotel, with the added interest of student spirit and social life, which will be promoted earnestly along with a fine opportunity for good work in College. Special announcements will be made later regarding these dormitories.

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 conduits. Heating tunnels of permanent construction connect the principal buildings with the power plant and contain the various distributing systems.

CAMPUS AND GROUNDS

The campus is permasently planned with a definite system of driveways and parking places, lawns, landscaping about the buildings, and a general plan of beautification. Interest is taken in the growing of trees on the campus. All the trees are young, but with care the College expects ultimately to have an attractive campus.

COLLEGE FARM

Of the College property, comprising approximately 2,008 acres, practically 1,688 acres lie west of the main campus and are used by the Division of Agriculture as a farm upon which to grow feed crops, cotton, forage crops, vegetables, and other crops necessary to supply the livestock with feed and to illustrate to students the various crops grown in this area. There are excellent herds of beef cattle, dairy cattle, horses, sheep, swine and poultry. All the farm is used in the practical educational work of the College. On the farm are pastures, barns, silos, and other equipment of the type and character to best illustrate the agriculture of this section.

ORGANIZATION

The government, control, and direction of the policies of the College are vested in a board of nine directors appointed by the Governor and approved by the Senate, each for a term of six years. The full list of the Board of Directors may be found on a page at the beginning of this Bulletin.

ADMINISTRATION

The administrative direction of the affairs of the College is in the hands of the President of the College, appointed by the Board of Directors, acting as the executive officer of the College. The College Administrative Council, faculty committees, divisional faculties, and general faculty have their special provinces in the handling of institutional matters.

DIVISIONAL ORGANIZATION

The College is divided into administrative divisions and departments of instruction, all closely correlated and interdependent. These divisions are as follows:

I. *The Administration Division:*

1. President
2. Registrar
3. Librarian
4. Business Manager
5. Purchasing Agent
6. Head of Information Bureau
7. Dean of Women

II. *The Division of Agriculture:*

1. Department of Agricultural Economics and Farm Management
2. Department of Animal Husbandry
3. Department of Dairy Manufactures
4. Department of Plant Industry (covering field crops, soils, horticulture, and genetics)
5. Teacher Training in Vocational Agriculture

III. *The Division of Engineering:*

1. Department of Architecture and Allied Arts
2. Department of Chemical Engineering
3. Department of Civil Engineering
4. Department of Electrical Engineering
5. Department of Geological Engineering
6. Department of Industrial Engineering, Engineering Drawing, and Industrial Education
7. Department of Mechanical Engineering
8. Department of Textile Engineering
(Chemical Engineering and Geological Engineering are associated with the subject matter departments in the Division of Arts and Sciences.)

IV. *The Division of Home Economics:*

1. Department of Applied Arts
2. Department of Clothing and Textiles
3. Department of Foods and Nutrition
4. Department of Home Management
5. Department of Home Economics Education

V. *The Division of Arts and Sciences:*

1. Department of Biology
2. Department of Chemistry and Chemical Engineering
3. Department of Economics and Business Administration
4. Department of Education and Psychology
5. Department of English
6. Department of Foreign Languages (French, German, Latin, and Spanish)
7. Department of Geology and Geological Engineering
8. Department of Government
9. Department of History and Anthropology
10. Department of Mathematics
11. Department of Military Science
12. Department of Music
13. Department of Physics
14. Department of Physical Education
15. Department of Sociology and Philosophy
16. Department of Speech

VI. *The Division of Extension:*

1. Extension Classes
2. Correspondence Study
3. General Extension

VII. *The Division of Plant Operation:*

1. Heat, Light, Water, and Power
2. Repairs
3. Janitor Service
4. Campus Maintenance

LIBRARY

The Library contains 39,640 catalogued volumes, and in addition some 20,000 uncatalogued pieces, comprising manuscripts, maps and pamphlets.

In gathering this material, emphasis has been laid on acquiring the nucleus of a basic reference collection. A substantial beginning has been made in the acquisition of a number of general encyclopedias, English and foreign, among which the *Encyclopedia Universal Illustrado Europeo-Americana* is outstanding in its general usefulness; special encyclopedias, notable among which are the *Encyclopedia of the Social Sciences*, and the *Dictionary of American Biography*; dictionaries, English and foreign, notably Murray's *New English Dictionary*; atlases; English and foreign literature texts; general literature; treatises on subjects taught in the College;

indexes; magazines, of general and special interest, current and back numbers, many of which are bound; the nucleus of a fair working collection of Federal and State documents, especially of Texas; the beginning of a collection of historical manuscript sources for the history of Texas. The latter comprises miscellaneous papers connected with the estate of James Bowie, the gift of Hon. 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 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 and University libraries, photostatic copies will be 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.

In the field of bibliography, general and professional, a beginning has been made. In this section the acquisition of most far-reaching importance is the revised edition of the British Museum *General Catalogue of Printed Books*, now in progress.

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* and its successor, the *United States News*, including the bound rag paper edition, form an especially important part of the periodical equipment.

The Library is a designated depository of the Carnegie Endowment for International Peace, whose gifts are helping substantially toward building up the International Law section.

It is also a partial depository of the Carnegie Institution, that is, it receives notice of all new publications, and it has the privilege of obtaining selected documents on request. The gifts of the Institution are going far toward building up the natural science and history sections is particular.

The Library, in addition to its service to students and faculty members, lends books to individuals and study groups in Lubbock and neighboring communities.

PLAINS MUSEUM SOCIETY

The object of the Plains Museum Society, organized during 1929, is to foster, increase, and diffuse among the people of this section of the State a knowledge and appreciation of history, science, and art. 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. These are

being held by the College and in part exhibited by several of the Departments.

THE COLLEGE BOOKSTORE

The College Bookstore, a self-sustaining enterprise of the institution, is owned and operated on the campus by the College. It is maintained to enable students to purchase text books, books for extension courses, supplies, and other equipment needed for laboratory and class work. It also carries, for the convenience of students, an assortment of stationery and other supplies.

A lunch counter is maintained by the Bookstore, serving light lunches, sandwiches, drinks and pastries, for the convenience of both students and faculty members, because of the distance of the College from town.

The Bookstore also handles secondhand books, purchasing them at the end of the year from students who desire to dispose of such books. It gives prompt service on book orders. A complete book catalogue service available to every one is maintained.

ATHLETICS

As a part of the physical education work the College fosters and promotes games and contests between different groups of students in intramural athletics. A part of a college education is to learn how to take care of the physical needs by healthful exercise and the art of playing games of various kinds.

The College fosters also intercollegiate athletic contests which are carefully supervised and under the direct charge of a faculty committee known as the Athletic Council. It provides a coaching staff of men and women trained in the art of coaching and supervising the physical training of the student body. It has athletic grounds, football field, track, tennis courts, gymnasium and equipment for football, basketball, tennis and track. Every effort is made to promote the highest ideals of sportsmanship.

The Texas Technological College is a member of the Border Intercollegiate Athletic Conference. Other institutions holding membership in this conference are: The University of Arizona; the University of New Mexico; the New Mexico College of Agriculture and Mechanic Arts; the Arizona State Teachers College; and the Tempe State Teachers College of Arizona.

THE ALUMNI ASSOCIATION

The Alumni Association of the Texas Technological College was organized in 1927, immediately after the commencement exercises for the first graduating class. At the present time the institution has more than 1,200 graduates. All graduates are urged to be members of the Alumni Association. The Association holds two rallies each year—one at Home-Coming Day in the fall of the year and the other at commencement time in the spring. Divisional organizations with the members holding regular meetings have been perfected in Amarillo, Dallas, Dalhart, Sudan, Channing, Austin, Perryton, and Wichita Falls, Texas; Pittsburgh, Pennsylvania; Nara Visa and New Hobbs, New Mexico.

An effort is made to keep a complete list of alumni with their addresses, positions held, progress in their life work and other information. Members are urged to send their names and addresses yearly to the Secretary of the Association. The secretary is Mamie Wolffarth, Lubbock.

CO-EDUCATION

The bill by which Texas Technological College was established provides that the College 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; the National University Extension Association.

DEMOCRACY OF SPIRIT

The Board of Directors and administrative staff of the Texas Technological College believe that part of a college education is the maintenance of a true American spirit of democracy. The College endeavors to promote a fine democratic spirit among all its students as a means of fostering attitudes of mind toward other individuals in a great democracy which will prepare a student for his true place as a citizen.

Hazing is forbidden by the laws of the State of Texas and the College expects every student to obey the laws of the State. The

practice is indefensible in every way even if the laws of the State of Texas did not make such a provision.

The Board of Directors passed a rule forbidding Greek letter social fraternities. Every student in this institution is encouraged to make a place for himself in the student organizations which will be worthy of his own best interests and the best interests of the entire group. No organization among the students has any right to exist unless it promotes both the best interests of the membership of the organization itself and the best interests of the College as well. All student organizations on the campus are urged to maintain the spirit of democracy.

OFFICIAL PUBLICATIONS

The College maintains a series of publications in the form of official bulletins, one issue of which is this general catalogue of the College. Another issue is devoted to various activities of the institution, the needs of the institution as they appear from time to time, and such scientific and literary productions from those members of the faculty and student body as are worthy of preservation in permanent form.

GENERAL PURPOSES OF THE CATALOGUE

The purposes of this catalogue are to give general information, to record the work of the year just closing, and to make announcements regarding the coming year.

The courses of study here announced are those which will be offered during the ensuing year, but the College reserves the right to make changes in courses at any time, and will offer those published at the beginning of each year and each semester for which there may be adequate demand.

In the catalogues are published the official regulations for the next year. These are subject to change without notice each year except as to the standards and requirements for degrees.

READ THE FOREWORD at the beginning of this catalogue as a guide to its use.

ENTRANCE

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

GENERAL ENTRANCE REQUIREMENTS

Students, both men and women, who are of good moral character and who can meet entrance requirements herein set forth, including the college physical examination, and who are prepared and able to profit by college work, will be admitted to the Texas Technological College. Applicants should bring with them a certificate of successful vaccination against smallpox or should be vaccinated by the College physician after coming to Lubbock.

Entrance requirements are stated in terms of *units*. A *unit* represents nine months of study in a subject in a high school or other secondary school, constituting approximately one-fourth of a full year's work. A regular accredited high school or other secondary school generally requires sixteen units of work for graduation.

ENTRANCE REQUIREMENTS FOR THE FOUR DIVISIONS
OF THE COLLEGE

Unit Requirements. Fifteen units of credit in an accredited high school or other accredited secondary school are required for admission to Texas Technological College. In no case will more than four units of vocational work (Group B) be accepted. The following units are required by groups:

	Units
1. English (required of every student)	3
2. Mathematics (See Group A)	2
This requirement applies to all divisions except Engineering where 3 units in Mathematics are required, as follows: Algebra 2, Plane Geometry 1, or *Algebra 1½, Plane Geometry 1, Solid Geometry or Trigonometry ½.	
3. Two units from each of any two of the three other divisions in Group A below (Social Science, Natural Science, Foreign Language)	4
4. Additional from any division or divisions of Group A	2
5. Additional from Group A or from Group B, or Groups A and B together	4
Total	15

*Provided ½ unit of Algebra is taken during the senior year in high school.

GROUP A

(This column under units shows the number of units which may be offered in each subject.)

Subject	Units	Subject	Units
<i>Mathematics Division</i>			
<i>English Division</i>		Algebra	1-1½-2
English	3-4	Plane Geometry	1
<i>Foreign Language Division</i>		Solid Geometry	½
French	2-4	Trigonometry	½
German	2-4	<i>Social Science Division</i>	
Greek	2-3	Early European History	1
Latin	2-4	Ancient History	1
Spanish	2-4	Modern European History	1
Czech	2-3	World History	1
<i>Natural Science Divisios</i>		English History	½-1
Biology	1	American History	½-1
Botany	1	Texas History	½
Chemistry	1	Civics	½-1
General Agriculture	½-1	Economics	½
General Science	1		
Physics	1		
Physiography	½		
Physiology and Hygiene	½-1		
Zoology	1		

GROUP B (VOCATIONAL)

Subject	Units	Subject	Units
Agriculture	½-4	Shorthand and typewriting	1
Commercial Arithmetic	½	Any subject accepted by an accredited secondary school for its diploma (except drill subjects such as penmanship, physical education, military training, etc.)	
Bookkeeping	1		
Drawing	1-4		
Commercial Geography	½		
Commercial Law	½		
Home Economics	½-4		
Manual Training	1-4		
Music	1		
Public Speaking	½-1		

HIGH SCHOOL CREDENTIALS

Transcript. A student proposing to enter the College should see that the high school principal forwards to the Registrar of the Texas Technological College, two weeks before the opening of the fall semester, or the spring semester, in which he is to be enrolled, a transcript of his work in high school or any other secondary school, showing that he is a graduate of an accredited high school.

ADMISSION BY EXAMINATION

In case a student is graduated from a high school which does not offer the full fifteen accredited units, he may enter the freshman class after passing entrance examinations sufficient to bring the total to fifteen units. Each spring 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 first, or fall semester, and second, or spring semester, and at the opening of the summer semester, the College gives entrance examinations to those who need credits for entrance. Students who desire to take entrance examinations on other dates may do so by paying a fee of \$2.50.

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

ADMISSION BY STATE TEACHERS' CERTIFICATE

Applicants holding teachers' certificates based on State examinations 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 OF MATURE STUDENTS ON CONDITION

At the discretion of the dean of the particular division, mature students (twenty-one years or over) may be admitted on condition 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 division 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 who show by their records that they are above the average in ability as students.

Admission of mature students on condition is provided only for those applicants who have not recently attended school and therefore could not pass the admission examinations.

Admission of mature students on condition 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 obtained from the dean), giving the information desired.

2. He must furnish evidence that he has substantially covered the work required for college entrance 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 as mature students on condition must make the entire fifteen required units by high grade work the first year and by special examinations before the beginning of their fourth semester in the College.

Students admitted in this manner cannot represent the College in any intercollegiate activity or become candidates for degrees until they have satisfied the admission requirements.

Students thus admitted who have been registered for freshman English, on completing the year's work in that subject, will be given credit also for three admission units in English. Similarly, students who have been registered for freshman mathematics, on completing the year's work in that subject, will receive credit also for two admission units in algebra and one admission unit in plane geometry. Furthermore, such students making at least 30 semester hours with an average grade of C during the first long session, 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 before the beginning of the fourth semester in the College.

ADMISSION WITH CONDITIONS

To enroll in the College a student must present a certificate

of graduation from an accredited high school with fifteen affiliated high school units. Included in the fifteen units must be three units in English and two in mathematics if the student enters without conditions. However, if he is able to present fifteen accredited units which do not include one of the two required units in mathematics, he may be admitted to the freshman class, except in the Division of Engineering. "Any conditioned first-year freshman student (but not a mature student on condition) who makes in Texas Technological College, in his first long session, or its equivalent, at least thirty semester hours with an average grade of "C" will thereby absolve his admission condition. Otherwise, the student must remove the condition: (1) by taking the regular admission examination in subjects not studied by the student in Texas Technological College, (2) by correspondence work taken in the Extension Department, or (3) by counting work done in Texas Technological College."

TRANSCRIPT OF COLLEGE CREDITS

Students who have made satisfactory records in other colleges and can show honorable discharge from such schools will be welcomed in Texas Technological College if they feel that their particular needs can be met better in this institution. In such cases they should have the Registrar of the college last attended send a transcript of their college credits, including entrance units, to the Registrar of 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. A transcript should not be brought in person by a student.

ADMISSION TO ADVANCED STANDING

Students transferring from other colleges which have four grade letters will be given credit only for those courses 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. This institution will pursue the regular rule of other Texas colleges, and especially of the University of Texas, in evaluating such transcripts. The lowest passing grade from the other colleges may not be accepted for credit in this institution. Furthermore, any transfer student who expects to be graduated from Texas Technological College must meet the regular requirements for graduation and must complete a minimum of thirty semester hours of credit in residence in this institution.

EXPENSES

UNIFORM FEES AND DEPOSITS

At the regular session of the Forty-third Legislature, the law was passed and signed by the Governor, requiring each State-supported educational institution in Texas to collect from all students tuition fees at certain specified rates. These fees are payable at the beginning of each semester and before the student's class cards are sent to the instructors. Under the new law, the following charges are made for each semester.

Tuition fees, provided by law for each student who is a bona fide resident of the State of Texas.	\$25.00
Uniform breakage deposit	7.50
Medical service fee.....	4.00
Student activity fee	5.00

The uniform breakage deposit of \$7.50 each semester is to cover breakage in all laboratory courses, library fines, breakage or damage to property in dormitories, and other charges for injury, loss or destruction of State property on the campus. The unused portion of this deposit is returnable to the student at the end of each semester. Should the student's laboratory breakage, library fines, or other charges at any time reduce the reserve on this deposit of any student below \$3.00, the student will be required on notice from the Business Office and the Dean of the Division to make an additional deposit to cover the breakage for which the original deposit was made.

Payments should be made in cash or by cashier's check or money order, payable to Texas Technological College. All checks, money orders, and drafts are accepted subject to final payment.

If a check or draft accepted by the fiscal office as cash is returned unpaid by the bank on which it is drawn, the person presenting it will be required to pay a penalty of \$1.

Any student failing to register within three days from the regular registration period may be required to pay an additional service charge of \$2.

Out-of-state fee: Students who are non-residents of the State of Texas are charged an additional fee in accordance with the new law, which provides that the fee shall be "an amount equivalent to the amount charged students from Texas by similar schools in the State of which the said non-resident shall be a resident."

The law provides that "a non-resident student is hereby defined to be a student of less than twenty-one (21) years of age,

living away from his family and whose family resides in another State, or whose family has resided within this State for a period of time less than twelve (12) months prior to the date of registration, or a student of twenty-one (21) years of age or over, who resides out of the State or who has resided within the State for a period of less than twelve (12) months prior to the date of registration."

Tuition fees charged out-of-state students will be uniform for all institutions supported by the State of Texas. Prospective non-resident students are advised to write to the Registrar for information as to what the out-of-State fee will be.

Provision is also made in the law that each resident or non-resident student who registers for less than twelve (12) semester hours may be charged a sum proportionately less than that above prescribed, provided each student registered shall pay no less than seven dollars and fifty cents (\$7.50) per semester.

The medical fee above stated is optional under the law, but students are strongly urged to take advantage of it, since experience shows that it is a great protection to the student body and is the best form of health insurance. The medical fee entitles the student to expert medical care and hospitalization for a limited period.

The student activity fee is also a voluntary fee paid by students to support student activities on the campus. It entitles the student to free admission to all football games, basket ball games, and other athletic sports, and is used for the support of intercollegiate and intramural sports promoted by the College.

A special fee is required for typewriter rental in courses in typewriting. See courses in secretarial training, *Department of Economics and Business Administration*.

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 semester. All deposits are required of ex-service students

RETURN OF FEES

In the long session any student withdrawing officially (1) during the first week of class work in a semester will receive a refund of eighty per cent of his tuition fees; (2) during the second week, sixty per cent; (3) during the third week, forty per cent; (4) during the fourth week, twenty per cent; (5) during the fifth week or thereafter, nothing.

A student who enters the second semester not knowing his first semester grades, and whose second semester registration is cancelled because of failure in his work in the first semester, will have all of his tuition fees for the second semester refunded.

In the summer session any student withdrawing officially during the first week of class work in either term will receive a refund of fifty per cent of his tuition fees. A student who withdraws after the first week of either term will receive no refund. In the case of withdrawal during the first summer term, if second term fees have been paid, they will be refunded.

No refund will be granted unless applied for within one year after official withdrawal. The date on which a student signs his application for withdrawal will be regarded as the date of official withdrawal. A refund is made to the student in person or on a properly attested written order accompanied by his receipt for tuition fees.

In no case are fees refunded to a student suspended from College by the College authorities.

The medical service fee is not refunded either in the long session or in the summer session.

ESTIMATE OF ANNUAL COST

An estimate of the annual expenses for one long session of nine months follows:

Tuition fees	\$50.00
Breakage deposit	7.50
Medical service fee	8.00
Student activity fee	5.00
Board and room in dormitories for nine months.....	202.50
Books and incidentals	50.00
Laundry and pressing (estimated)	30.00
Total	<hr/> \$353.00

This is a minimum. The maximum is governed by the amount expended on books and incidental expenses. The cost of books varies under the different curricula of the College from a minimum of \$10 to a maximum of \$25. The engineering students are required to purchase their own set of drawing instruments, costing approximately \$15.

BOARD AND ROOM

Board and room for men students authorized to live outside of the Men's Dormitory may be secured generally at from \$17.50 to \$25.00 per month.

Board and room for women students authorized to live outside of the Women's Dormitory ranges from \$22.50 to \$30.00 a month.

TEXT BOOKS AND SUPPLIES

Text books and supplies may be purchased from the College Bookstore. The Bookstore also handles secondhand books, thus giving opportunity for students to reduce the expense of these items. Adequate and efficient work cannot be done in college without the purchase of the necessary text books and other equipment required in a college course. It is the endeavor of the College to keep these costs as low as possible.

SPECIAL COURSES IN MUSIC

By special arrangement and approval of the Board of Directors, certain highly trained musicians in Lubbock offer credit courses in music and are permitted to charge extra fees for individual lessons. These courses cover a full range of instruction in voice, piano, violin, viola, cello, bass, and brass and reed instruments in both band and orchestra. Fees for special courses and the names of the approved instructors may be had on application. Instruction is generally given at the rate of two lessons per week carrying one semester hour of college credit. Other arrangements may be made with the consent of the Head of the Department. A special departmental catalogue will be issued in August.

REGULATIONS FOR STUDENTS

HOUSING REGULATIONS FOR STUDENTS

NEW DORMITORIES

Beginning with the fall semester of 1934-35, the College will have ready for occupancy two new dormitories, one for men and one for women, each with a capacity of approximately 320 students. These dormitories are fireproof in construction, well-furnished, and each is fully equipped with adequate, modern facilities for furnishing meals, and includes proper social rooms, all complete in every detail.

The Board of Directors of the Texas Technological College has adopted the following regulations affecting these dormitories:

In order that the Texas Technological College may care for students properly, and particularly exercise good care and training of freshmen, the following regulations have been adopted respecting the living of students in the two new College dormitories:

All men students who do not live in Lubbock, to the full capacity of the Men's Dormitory, are required to live in the Men's Dormitory.

All young women students who do not live in Lubbock, to the full capacity of the Women's Dormitory, are required to live in the Women's Dormitory.

The College considers it a distinct advantage to the students to live in the dormitories on the College campus. It is not intended that these dormitories should be exclusively occupied by freshmen. The dormitories will be used by the administrative authorities in charge of them to improve the social and educational life of those who occupy these two new buildings.

These dormitories will be made the chief centers of social life of the students and every effort will be put forth to make of them a real means of education contributing to the social training of those who reside in them.

Room and board in these dormitories will be furnished at the rate of \$22.50 per student per month, for all rooms accommodating two students. Corner rooms, which have windows on two sides, will be at the rate of \$23.50 per student per month. In each dormitory there are five single rooms, with private shower-bath, toilet, and lavatory, intended mainly for persons occupying some position in connection with the College. Should these rooms be occupied by

students, the rate will be \$27.50 per month for room and board. A \$5 deposit is required to reserve a place in the dormitories, which deposit will be credited on the first month's charge for room and board. The student's regular breakage deposit, mentioned under *Fees and Expenses*, which covers breakage in laboratory courses, library fines, and injury or loss of State property, also covers breakage or injury to property in the dormitories for such students as live in the dormitories.

The College reserves the right to alter the charge for room and board in case there should be a material change in the cost of food or other services, making such a change necessary, but such changes will not be made without due notice to all students and only at the end of a semester or year. It is the aim of the College to conduct the dormitories as economically as possible and to furnish room and board at the lowest possible figure consistent with the service rendered and the proper use of the dormitories.

A special bulletin regarding the dormitories will be issued later and sent to prospective students upon application.

HOUSING REGULATIONS FOR STUDENTS NOT LIVING IN COLLEGE DORMITORIES

The College has a faculty committee on student housing. This committee furnishes a list of approved rooming and boarding houses for men and women not required to live in the College dormitories. The College retains the right to fix or to change any student's place of residence should such change become necessary for the best interest of the student. Any complaint regarding care of rooms, improper food, disorder, or any other condition which makes a house undesirable should be reported to the housing committee. 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.

INSPECTION AND APPROVAL

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

1. The house must be kept in a state of good repair, and provided adequately with sewer connections, hot and cold running water, screens, heating and lighting facilities, and telephone.
2. The proprietor must be of good moral character and must agree to cooperate with the College in carrying out housing regulations.

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

4. Proprietors are required to report all cases of serious illness of students.

5. Proprietors are required to report immediately any changes of residence made by students in their care.

6. Proprietors are required to report immediately any serious misconduct of students.

7. Men and women students are not allowed to room at one place, and not more than two students are permitted to live in one room. Proprietors are held responsible for violation of these regulations.

8. Rooming house proprietors are required to see that proper conditions for study are maintained. 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 reports concerning men students should be made to the committee on housing for men and reports concerning women students should be made to the Dean of Women. Failure to make such reports will necessitate the removal of the rooming house in question from the approved list.

SPECIAL REGULATIONS APPLYING TO MEN STUDENTS NOT RESIDING WITH THEIR PARENTS

1. A student may not change his place of residence during any one semester 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, chairman of the Housing Committee, 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.

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. In no case will men students be allowed to room in bachelor quarters unless they find it necessary to prepare their own meals.

SPECIAL REGULATIONS APPLYING TO WOMEN STUDENTS
NOT RESIDING WITH THEIR PARENTS

1. In accordance with a ruling of the Board of Directors, all women students not residing in Lubbock shall, to the full capacity of the dormitory, room and board in the Women's Dormitory. In event that the Women's Dormitory should prove inadequate to care for all out-of-town students, senior halls will be provided for senior women.

2. After consultation with the Dean of Women, graduate students will be permitted to make special arrangements for living quarters.

3. A student who engages room, or room with board, may not change her place of residence during the semester except by request of the proprietor, or by permission given by the Dean of Women. Two weeks' notice is required before a change becomes operative.

4. 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.

5. Monday, Tuesday, Wednesday, and Thursday nights during the school session are definitely reserved as study periods. For this purpose quiet hours shall be maintained every night after 7:30 during the long session and after 8:30 during the summer session. Friday and Saturday nights should be used for study by students in general, but dates and engagements may be taken for such nights, holidays, and nights preceding holidays. This rule applies to all women's rooming houses and dormitories.

6. Upper classmen maintaining a general average of "B" and a clear discipline record will, upon request, be accorded special social privileges. A definite statement of these privileges will be sent to the housemother and a copy of the privileges will be kept in the Dean of Women's office. In no case shall these privileges conflict with the general regulations of the hall.

7. Housemothers are expected to report at once all absences, all cases of illness, and infractions of the general rules.

8. Women students are not permitted to go to the dormitories and boarding houses of men students except upon special invitation and after arrangements with the Social Activities Committee.

9. Students will be permitted to use automobiles when going back and forth from school and attending social affairs.

DISCIPLINE REGULATIONS FOR STUDENTS

Every student registered in Texas Technological College is expected to obey the laws of the State of Texas and of the United States of America and the local laws of the City of Lubbock. He is expected to conform to the rules of ethics and of gentlemanly 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 preserve and respect the College property and the property of individuals.

The discipline of students is in the hands of faculty committees: one committee for men, of which the Dean of Men is Chairman; and, one committee for women, of which the Dean of Women is Chairman. These committees are fact-finding committees who make their recommendations to the College Administrative Council which has final jurisdiction in all matters of personal conduct, discipline, and scholarship.

For further disciplinary matters, see the following sections on absences from classes and other regulations.

SUSPENSION FROM COLLEGE

A student who 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, is dropped from the class rolls of the College. Such suspension may be for the remainder of the semester or of the school year, or it may be made permanent. In no case are fees remitted to a student suspended from College by the College authorities.

A student who discontinues class attendance and makes no reasonable effort to secure withdrawal, may be placed on suspension by the dean.

A student suspended for disciplinary reasons, or required to remain out of college for scholastic reasons for one semester or more, is required to petition the Administrative Council for re-admission before he may again register. If approval of the Administrative Council is not secured, the student may not register.

When a student is suspended from the College the grades will be given in accordance with the paragraphs on grades, in the same manner as in the case of withdrawal.

HAZING

Hazing is forbidden by the laws of the State and by College regulations. Every student is pledged upon registration to obey the

laws of the State, and particularly to obey this law. Chapter 4-A of Title 15 of Vernon's Criminal Statutes of the State of Texas specifically forbids students at any State institution to engage in what is commonly known and recognized as hazing or to encourage, aid, or assist any other person thus offending. The Statutes particularly define hazing and require not only that students shall obey the law, but that teachers of the institution shall enforce it. The full cooperation of the faculty and student body must be directed toward the entire elimination from this institution of any and all practices coming within the very complete definition contained in the Texas law.

WARNING ON STUDENT CHECKS

Students are urged to exercise care in paying fees or making campus purchases by check. 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 division 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 worthless check.

SCHOLARSHIP REGULATIONS FOR STUDENTS

SPECIAL ACADEMIC REGULATIONS

1. Regulations in the Division of Arts and Sciences.

In all matters pertaining to academic work men and women students are responsible to the Dean of Arts and Sciences except that women students are responsible to the Dean of Women in the following matters:

- (a) Absence from class.
- (b) Honorable dismissal from College.
- (c) Scholarship probation.
- (d) Change in schedule.

2. Regulations in the Divisions of Home Economics, Engineering, and Agriculture.

When desirable women students in the Division of Home Economics, Engineering, and Agriculture may be referred to the Dean of Women for consultation, but in all matters pertaining to academic work men and women students in these Divisions report to their respective Deans. These matters include the following:

- (a) Absence from classes.
- (b) Honorable dismissal from College.
- (c) Scholarship requirements.
- (d) Scholarship probation.
- (e) Individual approval.
- (f) Change in schedule.

ABSENCE FROM CLASSES

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

2. Students are urged to attend all meetings and examinations of courses for which they are registered. For each eighteen absences per semester 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 by 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 files 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 division in which the student is enrolled, before the student leaves the College.

(b) Absences due to illness 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 division 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 by handing in written work or in any other manner satisfactory to the instructor concerned. When such missed recitations have been made up, the remaining absences are removed.

(b) Application 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 division 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 school holiday count as two, except as provided for in paragraphs 3b, 3c, and 4a.

ADDING COURSES

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

No course may be added after one 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 triplicate—should be obtained from the dean's office.
2. Approval by the instructor in the course should be obtained on these add cards.
3. The dean's approval of the add cards should then be obtained.
4. Add cards should be filed in the Registrar's office.
5. If a fee is required, the Registrar's office then sends the student to the Business office.

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

DROPPING COURSES

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

The request for this action is not granted if made later than two weeks after registration in the fall semester, or one week after registration in the other semesters, unless the dean originates the request. The dean may request the instructor's advice.

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 division in which the student is enrolled.
2. Drop cards—made out in triplicate—should be obtained from the dean's office.
3. The signature of the instructor in the course should be obtained next 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 course to another only with the approval of the dean of the division and the instructors concerned.

The request for this action is not granted if made later than one week after date of regular registration in the fall semester or one week after date of regular registration in the spring semester, unless the dean originates the request.

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 division in which the student is enrolled.
2. Change cards—made out in triplicate—should be obtained from the dean's office.
3. Approval by the instructor of each section concerned should be obtained next on these cards.
4. The dean's approval of the change cards should then be obtained.
5. 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 30 semester hours.

Sophomore—A regularly enrolled student who has completed a minimum of 32 semester hours including 2 hours of required physical education.

Junior—A regularly enrolled student who has completed not less than 64 semester hours including 4 hours of required physical education, and 60 grade points not including physical education.

Senior—A regularly enrolled student who has completed not less than 94 semester hours including 4 hours of required physical education, and 90 grade points not including physical education.

Graduate—One who has completed the requirements for the bachelor's degree, is a candidate for the master's degree, and has been fully accepted by the Graduate Committee under the rules laid down for graduate work.

In classifying transfer students the number of grade points required is reduced by the number of hours of transferred work.

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 distinction 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 semesters, but where the student's curriculum requires the completion of a subject, one semester of a course will not count for a degree until credit has been received for the entire required course.

Semester grades are recorded by teachers on grade cards and on grade sheets and are filed with the Registrar in accordance with his time limits. The Registrar reports all grades to the student's parents or guardians, to the student, and to the student's dean. All

students regularly enrolled in any given course at or after November 1 in the first semester or March 1 in the second semester must receive a grade at the end of the semester. No grade may be given to a student not regularly enrolled in a course during the semester covered. No grade may be corrected or changed without inquiry as to the reason and necessity for the change, except the grades of "E" and "Inc.", for the changing of which definite regulations are provided.

GRADE OF "E"

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

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 semester 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 semester. This examination must be passed with a grade of at least "C", and if so passed the semester grade becomes a "D." The grade of a student who fails to meet this requirement becomes "F."

2. By creditable work the following semester in a course continuing beyond one semester. 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, under this method, will be supplemented by the grade obtained by repeating 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 "E" upon the record. When an "E" stands without action for one year it becomes "F," except that at mid-semester before graduation any grade of "E" then standing without action becomes an "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: Within four weeks after the beginning of the next regular semester of residence after the grade of Inc. is given, the student shall initiate a petition to the dean of the division in which he is enrolled for permission to complete the work reported incomplete. The dean and the instructor in joint conference shall decide whether the work may be completed or the grade become "F." The dean may extend the time for initiating the petition. The student who fails to initiate his petition within the time limit stated (unless the time be extended by the dean) shall 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 the "Inc."

Record of "Inc.": The instructor shall note on the reverse side 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 last recorded.

When an "Inc." stands for one year without action it becomes "F," except that at mid-semester before graduation any grade of "Inc." then standing without action becomes "F."

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

THE GRADE OF "W"

The student who withdraws from a course before November 1 in the first semester or March 1 in the second semester, in a manner prescribed by the college regulations, receives no grade, and his name is not entered on the final grade sheet.

A student who withdraws from a course on or after November 1 in the first semester or March 1 in the second semester 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 when a student fails in a course, and also when the student withdraws from a course in a manner prescribed by college regulations on or after November 1 or March 1 and was not then passing in the course.

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 semester hours required for graduation. For grade A, three grade points are awarded for each semester hour; for grade B, two points; for grade C, one point; for grade D, no points.

No grade points are required or allowed for credit 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 military science. A student who has the number of semester hours required for graduation, but not the corresponding number of grade points, may satisfy the grade point requirement by completing additional courses until the grade point requirement has been met. Courses used to meet this requirement must have the approval of the student's dean.

DEFICIENCIES IN ENGLISH

A special survey of the records of all students who are registered as juniors and are candidates for a degree will be made at the beginning of the junior year to ascertain their proficiency in English composition and the use of English. If any student in any division of the College is found deficient in the use of the English language, such deficiency must be removed before the beginning of the last semester of the senior year. The reports on the standing in English of all prospective juniors and seniors will be made by the Registrar to the dean of the division in which the student is registered, and special arrangements should be made between the dean of the division and the Head of the Department of English for the removal of such deficiency by additional required work in English.

PHYSICAL EDUCATION

Physical education is required of all freshmen and sophomores, both men and women, unless excused upon recommendation of the College physician, but such excuse shall not relieve the student from making the total semester hour requirements for graduation. Military science may be taken in place of the required physical education.

Students twenty-five years of age or above who do not wish to enroll for physical education, and those excused from the requirements on the recommendation of the College physician, must complete at least a two-semester-hour college credit course in Health and Hygiene as a part of the requirements for graduation.

SEMESTER HOUR

The unit for instructional purposes is the course. Most courses meet three hours a week, having a credit value of three hours for one semester or six hours for both semesters.

The unit of measure for credit purposes is the *semester hour*, which means one hour of recitation (or the equivalent in shop or laboratory work) per week for one semester of eighteen weeks. For each classroom hour two hours of preparation are expected. Three hours of shop or laboratory work are counted equivalent to one classroom hour and the preparation for it.

MAXIMUM NUMBER OF SEMESTER 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 semester hours if their outside duties demand as much as three hours per day. This limit may be increased by the dean of the division in which the student is registered, if the nature of the employment permits this and if the student's record shows a sufficiently high average grade.

COURSE NUMBERS

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

SCHOLARSHIP PROBATION

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

1. The student may not register for more than four courses, approximately twelve hours, except upon the advice of the dean.

2. In order to allow more time for studies, he shall not be permitted to represent the College in any intercollegiate contest or collegiate office or elective collegiate position during his period of probation, and shall not be permitted to be absent from the College for any cause except illness.

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

4. If the student is reported passing in all subjects at mid-semester, the scholarship probation will be removed.

5. The student on scholarship probation who fails to pass as many as nine hours is suspended at the dean's discretion at mid-semester if the reports made at that time seem to require such action. See the paragraph on "Suspension from the College."

A student who presents notably low grades from another institution will be received in Texas Technological College only on scholarship probation and this will be recorded on his transcript of credits when it is evaluated. In that case, this student will be registered in accordance with these regulations.

Students who are permitted to register for nine hours or less because of employment may not come under these provisions if an approved application is filed with the dean in advance of the beginning of the semester's work.

WITHDRAWAL FROM COLLEGE

A student who finds it necessary to withdraw from the College before the close of the semester should apply to the dean of the division 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 the permission of his parents 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. The grades recorded are given in accordance with the grade

requirements in the preceding paragraphs, and if the withdrawal is due to accident or illness, the grades, whether "W" or "F", will be based on the student's standing on the last day of attendance in each of the specific courses to which he is assigned. The fact that the student may have withdrawn does not alter the scholarship probation requirements.

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 main divisions of the College are encouraged whenever such seem advisable for the best interest of the student. Students desiring to transfer from one division 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 semester. 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 division of the College until the provisions of the probation regulations have been met.

WEEK OF RESTRICTED SOCIAL ACTIVITIES

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

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 divisions of the College.

1. Each student is required to do residence work in this College of at least two long session semesters, five summer session terms, or one long session semester and two summer session terms, and complete a minimum of thirty semester hours of work counting toward a degree. At least twenty-four of the last thirty semester hours offered for the undergraduate degree must be taken in this College. The student must also make before graduation, a total number of grade points in residence at least equal to 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 two semesters 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 division 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. No second bachelor's degree will be conferred until the candidate has completed at least twenty-four semester hours in addition to courses counted toward the first bachelor's degree.

5. The candidate for a degree must be attired in the correct academic costume when presenting himself for a degree.

6. Diplomas are bestowed upon the candidate at the time the degree is conferred.

NOTE: 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 President and College Administrative Council.

MEDICAL SERVICE FOR STUDENTS

The Lubbock Sanitarium, 1301-1319 Broadway, in return for the \$4.00 per semester collected from students for medical service, agrees to render the following services to any student enrolled in Texas Technological College, who has paid this fee at the beginning of the current semester .

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 such consultation is desired.

3. The physician will make, without further charge, calls at the student's home, or at the Sanitarium.

4. Each student will, in case of necessity, have free use of the Sanitarium facilities of the Lubbock Sanitarium, including board, lodging and general nursing in the Sanitarium, 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 Sanitarium 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 provisions in paragraph 3 above .

11. Daily service 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 employes 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 the Dean of Men 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.

STUDENT AIDS AND HONORS

SCHOLARSHIPS AND PRIZES

High scholarship is the ideal of the Texas Technological College. Every means is taken to promote high scholarship. The first Called Session of the Forty-Third Legislature made it legal for the governing boards of the State-supported colleges to confer scholarships on the honor students of affiliated high schools. By agreement between the State-supported institutions of higher learning, one scholarship each year will be granted on and after September 1, 1934, to the highest ranking graduate of the year preceding September 1, 1934, of each affiliated high school in the State, but only one such scholarship is granted to one student who may choose the State-supported institution of higher learning in Texas, which student will attend and use such scholarship. The State Department of Education prepares the list of honor graduates for the regularly affiliated high schools each year and furnishes this list to each of the State-supported institutions of higher learning. Such scholarship entitles the student to tuition amounting to the sum of \$50 free for one year.

All scholarships offered for work done in the College are supported by funds paid to the College for that purpose. When a student has been awarded a scholarship, the disbursements are paid to him at the rate of fifty per cent for the fall semester and fifty per cent for the spring semester. 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 may on occasion originate nominations.

The following scholarships and prizes were awarded for the year 1933-34:

Dr. M. C. Overton Scholarship of \$200 to the student who was of the 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 Malcolm Martin, of Lorenzo, Texas.

Standefer-Canon Award to the student among the football letter men making the highest grades for the year, awarded to Lacy Turner, of Claude, Texas, whose name is to be inscribed on the silver football plaque in the athletic office.

Pan-Hellenic Society Prize of \$50 to the freshman student in the Division of Home Economics making the highest grades in all

of her work for the year, divided equally between Mary Alberta Thomas and Doris Townsend, both of Lubbock, Texas, who tied for this honor.

Double Key Society Loving Cup presented by this society to the sophomore student in the Division of Home Economics having the highest standing for the year in the qualities of scholarship and leadership, awarded to Katherine Leidigh, of Lubbock, Texas.

Gargoyle Club Prize—this year the book, *Ancient and Mediaeval Art*, by Margaret Bulley—to the freshman student doing the best work either in Architecture, Architectural Engineering, or Commercial Art, awarded to Mary Etta Bean, of Lubbock, Texas, a freshman student in Commercial Art.

Faculty of the Department of Architecture and Allied Arts Prize—the book, *Ancient and Mediaeval Art*, by Margaret Bulley—to the student doing the best work in Architecture, awarded to Frank Standhardt, of Roswell, New Mexico.

Mary Overton Craig Prize in Chemistry given by Dr. and Mrs. Willaim M. Craig in memory of Mary Overton Craig to the young man of the sophomore class who shows the greatest promise as a future chemist. (For details of eligibility, apply to Head of Department of Chemistry.) First announcement at Commencement for the year 1935-36.

HONORS

At the close of each semester the Registrar's office issues an honor roll which includes the names of all students who during the semester have passed all subjects taken, aggregating not less than fifteen semester hours, with an average grade in all courses of at least "B", without having received any failing, conditional, or incomplete grades.

LOAN FUNDS

There are 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 to 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. In most cases loans are not made to new students.

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

Will C. Hogg Loan Fund—This fund amounts to \$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 process of settlement.

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.

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. The fund is available in small amounts to students who have attended the College a year or more and demonstrated their worthiness and ability.

Twentieth Century Club Loan Fund—This fund was originated in 1925, \$200 being raised the first year by an assessment of \$5 per member. Six students have borrowed from this fund, which amounts to \$415. The interest rate is four per cent and loans are made to either men or women.

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. Money is loaned on the recommendation of the Home Economics Club Council and with the approval of Dean Margaret W. Weeks. This fund is open to Home Economics students who need the money. Four per cent interest is charged.

Athenaeum Club Loan Fund—This fund was started in 1926 and amounts now to \$250. It is available to any worthy woman student.

The Business Womens' Loan Fund—This fund amounts to \$200 and most of this is now loaned out. It is available to any unmarried girl at five 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.

Engineering Society Loan Fund—The Engineering Society maintains a small loan fund which is available to advanced engineering students.

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

Freshman 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. Loans from this fund are limited to \$15 and do not extend beyond the end of the current semester.

STUDENT EMPLOYMENT

Students will find it exceedingly difficult while actually attending college to earn sufficient money to pay all expenses of a college education. A limited number of students find it possible to earn sufficient money to pay for room and board while attending college. A few find it possible to earn all their expenses. These generally are confined to those students in the upper classes who have developed special skill or acquired certain knowledge making them eligible for the few jobs connected with the College and in Lubbock which pay enough money to pay their entire expense.

The College maintains a Student Employment Bureau, the function of which is to aid worthy students in finding jobs. No student should come to Texas Technological College with the expectation of carrying a full course of study and reserving many hours for outside employment, leaving insufficient time to keep in good health and do creditable classroom work. So far as possible, the Student Employment Bureau will aid worthy young men and women who are possessed of good health and character and a pleasing personality, combined with industry and reliability, to find such jobs as may be available either at the College or in the City of Lubbock. No student should make application to the Bureau of Student Employment until he is assured that his credits have been accepted and his application for entrance to the College approved.

STUDENT ORGANIZATIONS

THE STUDENT COUNCIL

The Student Council is the official body of the students chosen to represent them in matters affecting student activities and to co-operate with the College administration in administering affairs peculiar to the students. It is made up of representatives of the various divisions and classes elected by vote of the student body.

STUDENT PUBLICATIONS

There are at present two publications representing the student life of the College:

"The Toreador" is the College paper published once each week by officers elected by the student body. It is the official publication of the student body and the College itself and constitutes the principal means of keeping the student body, faculty, and friends of the institution informed regarding the weekly news of the College.

"La Ventana" is the College annual, published each year and issued near the end of the spring semester. It records the principal events and historical progress of the institution, together with a display of all phases and interests of College life.

The two College publications offer valuable training to students in the field of journalism and in business management of publications.

A student directory is published by the College near the beginning of each semester. It contains the names and addresses of all students, employees, and faculty members of the College.

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.

THE YOUNG WOMEN'S CHRISTIAN ASSOCIATION

The Y. W. C. A. of Texas Technological College is an organization for all women students and faculty members. The work of the Y. W. 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.

OTHER RELIGIOUS WORK

The local churches of Lubbock cooperate 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 students. The faculty committee on Student Religious Life has general supervision in these matters, and receives excellent assistance from the Student Religious Council of the churches of Lubbock. Courses in Bible and religious education are given in the College for college credit.

MUSICAL ORGANIZATIONS

The College band, which plays at athletic and other College events, rehearses daily under the direction of a professional director. Students interested in playing in the band should register for Music 213x-4x. (See *Department of Music*.) Band work may be substituted for required Physical Education. Taken as such the student should register for M. S. 215x-6x. (See *Department of Military Science and Tactics*.)

The Music Department also promotes an orchestra which rehearses once each week, or at such times as may be arranged by the Head of the Department of Music. Music majors should register for this substituting it for the second year of glee club or choral club.

Glee clubs for men and for women students meet for regular rehearsal by arrangement with the Head of the Department of Music. The Choral Club, an organization for mixed voices, also rehearses weekly. Attendance at these various ensemble rehearsals is part of the required work of all Music majors. Students should register for all ensemble work if credit is desired.

ARTIST COURSE

The Artist Course is a series of attractions sponsored by the College and offered to the student body at a cost of seventy-five cents per semester.

Such distinguished artists and organizations as Mme. Marguerite Matzenauer, Efram Zimbalist, Clare Clairbert, Sousa and his

Band, Doris Kenyon, Tony Sarg's Marionettes, Harald Kreutzberg, Chernivsky Trio, Count Ilya Tolstoy, Cyrena van Gordon, the Ben Great Players, the Jitney Players, Elizabeth Rehberg, Amelia Earhart, and Kryl and his Band have appeared under the sponsorship of this committee.

ORATORY AND DEBATE

The ability to speak effectively is an extremely valuable asset, and the man of affairs who wishes to influence and persuade men 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. 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 furnishes additional opportunity.

CLUBS AND SOCIETIES

The College authorities have followed the policy of encouraging student activities and organizations which seem to offer a field for individual self development. No organization among students on the campus will be permitted unless application is made to the College Administrative Council for the right to organize such a club, stating the object, type of membership, and other matters necessary for its organization. Every organization must have the approval of the College Administrative Council. No club will be permitted to organize unless the objects are such as to promote not only the best interests of the individual students who become members, but also the best interests of the institution itself. All clubs and societies are required to have faculty sponsors, and the treasurers of student organizations are required to follow certain regulations and to deposit the funds with the College business office.

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:

SERVICE CLUBS

The Association of Women Students, the Forum, the Junior Council, and Las Leales have the interest of the women students as their object. The Women's Athletic Association, which is open to women students, sponsors athletic activities among the women.

DEPARTMENTAL, HONOR, AND SCIENTIFIC CLUBS

The honor, divisional, and departmental organizations promote scholarship and such professional, departmental, and scientific interests as their names indicate. These clubs include: The Agricultural Club, Alpha Chi, Alpha Psi Omega, student branches of the American Institute of Electrical Engineers, the American Society of Civil Engineers, and the American Society of Mechanical Engineers, the Architectural Society, Block and Bridle Club, Cadet Officers' Club, Capa y Espada, Dairy Club, Debate Club, Double Key, Engineering Society, Future Farmers of America, Gargoyle Club, Geographical Society, Geological Engineering Society, Home Economics Club, International Relations Club, Math Club, Phi Psi Fraternity (Kappa chapter), Physics Club, Pre-Law Club, Pre-Med Club, Press Club, Test Tube, Sigma Gamma Epsilon, and Sock and Buskin Club. They serve the purpose of bringing together those whose interests are in common. Their work is primarily professional and educational, and the objects of these organizations are to be commended highly.

DIVISION OF AGRICULTURE

ARTHUR H. LEIDIGH, DEAN

PURPOSE

The Division of Agriculture of Texas Technological College aims to afford its students a liberal education, including instruction in the scientific and technical subjects which are fundamental to an understanding of the agricultural industry.

The purpose in offering the courses of study here outlined 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 accordingly are offered for those who expect to operate farms or ranches, those who intend to enter manufacturing, technical, or scientific professions bearing directly on agriculture, and 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 courses 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 Division of Agriculture thus far completed consist of the Livestock Pavilion, the Dairy Barn, the first unit of the Greenhouse, and a small building used for offices and classrooms. These buildings are of permanent construction and are so planned that they may be added to as occasion demands.

EQUIPMENT

The Division 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 instruction in plant industry.

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 divisions of the College. To the end that the agricultural equipment and facilities may serve the greatest number of people, the Division of Agriculture conducts contests for vocational agricultural students and boys' club members, as well as short courses and demonstrations of one to two days each.

FIELD FOR GRADUATES

There is a demand for college educated men trained in specialized lines of agriculture, as well as for professional men with a basic agricultural education. Among the lines of work usually open to graduates are the following:

Farmers and farm managers; marketing agents; managers of co-operative associations; teachers in colleges, and high schools; extension experts in agricultural colleges, railroad and land companies; dairy and creamery experts or operators; milk distributors; government and experiment station employees; horticultural experts; poultry experts; county agents; assistants in seed houses; agricultural writers for farm journals; plant quarantine inspectors; plant pathologists; entomologists trained in agriculture; city park superintendents; landscape architects; agricultural engineers; farm machinery specialists; field men for livestock associations; livestock feeding experts; and feed salesmen.

TEACHER TRAINING IN VOCATIONAL AGRICULTURE

Federal and State requirements make it necessary that the teacher of vocational agriculture in the high school receive college training in agriculture. These requirements may be met in the Division of Agriculture. The Vocational Agriculture Certificate requires twelve semester hours in Education. These as well as the other requirements for this certificate are shown under *Vocational Agriculture Education*.

Teachers certificates other than in vocational agriculture may be secured in the Division of Agriculture. Part of the requirements are met by the curriculum and part may be met by electives. In some cases extra courses may need to be taken. Special certificates authorize the holders, after meeting certain requirements, to teach agriculture, and may entitle the school in which the holder teaches to receive State and Federal Aid. For more complete information see *Department of Education and Psychology* in this catalogue.

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 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 usually may be secured from the department concerned. Such laboratory expenses are in addition to the correspondence fee. Examinations are held at the College.

TRIPS AND JUDGING TEAMS

To enable students to secure a better conception of the agricultural industry, the Division of Agriculture recommends and fosters trips of inspection and intercollegiate judging contests for advanced students, and offers every assistance to make such trips worthwhile. These trips are not required, and the College does not pay the expenses of the students. In the case of judging teams, staff members coach and train the teams outside of regular classes, supplementing class instruction.

ADMISSION REQUIREMENTS

The requirements for admission to the Division of Agriculture are essentially the same as those for admission to the other divisions of the College. For details of these requirements, refer to *Entrance*.

REQUIREMENTS FOR GRADUATION

Special courses of study are offered in agronomy, animal husbandry, horticulture, agricultural economics, dairy manufactures, and in teacher training in Vocational Agriculture.

All agricultural students are assigned to a definite 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 a specific major. The uniform requirements accordingly include survey courses in the various departments of the Division of Agriculture, a series of orientation lectures, and work in English, chemistry, biology, economics, and mathematics. Students who are found to be notably deficient in the fundamentals of oral or written English are required to remove such deficiency before proceeding with the work of the junior year.

On petition to the Dean of the Division of Agriculture other subjects than those in the uniform curriculum for the first two years may be followed, if a sufficiently good reason for such a procedure is shown. If other subject matter is studied, 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.

The four-year curricula leading to the degree of Bachelor of Science in Agriculture have a twofold purpose. It is desired that the student shall receive instruction in all of the fundamental courses relating to farming that are necessary for a broad occupational understanding of Southwestern agriculture. In addition to the fundamental courses which are required of all students in the four years, students are allowed to select departments in which they wish to do advanced work, and are allowed to elect a certain amount of non-required work. The student who is awarded a degree is thus, to some extent, a specialist in a particular field.

While the curricula as scheduled are believed to be adequate 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. Substitution and combinations are permitted only when there is good evidence that the student desiring such work is reasonably certain he will follow the branch selected.

A candidate for a degree in agriculture must have had satisfactory 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 semester of the candidate's senior year, and is required before registration for senior studies.

DEGREES

The degree of Bachelor of Science in Agriculture is conferred upon students who satisfactorily complete the required courses as outlined in the following pages. This degree is given with majors in agronomy, animal husbandry, horticulture, agricultural economics, and dairy manufactures .

CURRICULA FOR AGRICULTURAL STUDENTS

CURRICULUM IN AGRICULTURAL ECONOMICS

	Semester Hours	
	Sem. I	Sem. II
Freshman Year		
Bot. 131x-2x. General Botany	3	3
Chem. 131x-2x. General Chemistry	3	3
Eng. 131x-2x. Freshman Composition	3	3
A. H. 121x. Types and Market Classes of Cattle and Sheep.....	2	.....
A. H. 122x. Types and Market Classes of Hogs, Horses and Mules .....	.....	2
D. M. 131x. Principles of Dairy Manufacturing	3	.....
P. H. 131x. Farm Poultry .....	.....	3
Hort. 131x. Plant Propagation	3	.....
Agron. 131x. The Fundamentals of Crop Production .....	.....	3
G. A. 111x. Orientation for Agricultural Students	1	.....
P. E. 113x-4x. or M. S. 113x-4x. Physical Education or Military Science	1	1
	19	18
Sophomore Year		
Ag. Eco. 233x. Economics, Principles, and Theory	3	.....
Ag. Eco. 234x. Principles of Agricultural Marketing .....	.....	3
Chem. 341x. Organic Chemistry	4	.....
Chem. 220x. Qualitative Analysis	2	.....
Bact. 231x. Bacteriology .....	.....	3
Math. 231x-2x. Mathematics for Students of Agriculture	3	3
Eng. 234x. Special Work on Correct Usage	3	.....
Agron. 221x. Soils	2	.....
Hort. 231x. Vegetable Gardening .....	.....	3
A. H. 231x. Breeds of Livestock .....	.....	3
D. M. 222x. The Dairy Manufacturing Industry .....	.....	2
P. E. 213x-4x. or M. S. 213x-4x. Physical Education or Military Science	1	1
	18	18
Junior Year		
**Ag. Eco. 321x. Cooperation in Agriculture	2	.....
*Ag. Eco. 322x. Marketing Agricultural Products .....	.....	2
Ag. Eco. 325x. Farm Records and Accounts .....	.....	2
Ag. Eco. 331x. Statistical Problems	3	.....
A. H. 331x. Animal Nutrition and Principles of Feeding .....	.....	3
Agron. 331x. Forage and Pasture Crops	3	.....
Hort. 341x. Principles of Genetics .....	.....	4
Engr. Dwg. 223x. Agricultural Drawing .....	.....	2
Speech 131x. Fundamentals of Speech .....	.....	3
Electives from Group I below	6	1
Electives from Group II below	3	.....
	17	17
Senior Year		
G. A. 411x. Agricultural Lectures	1	.....
Ag. Eco. 411x-2x. Agricultural Economics Seminar	1	1
*Ag. Eco. 421x. Land Economics	2	.....
**Ag. Eco. 422x. Prices and Forecasting .....	.....	2
Ag. Eco. 423x. Farm Management	2	.....
R. S. 421x. Methods of Research and Extension	2	.....
R. S. 422x. Rural Sociology .....	.....	2
Govt. 320x. American Government, National and State	2	.....
Electives from Group I below	3	5
Electives from Group II below	4	6
	17	16

*Given in alternate years; given in 1934-35.

**Given in alternate years; not given in 1934-35.

CURRICULUM IN ANIMAL HUSBANDRY

Semester Hours
Sem. I Sem. II

Freshman Year

A. H. 121x. Types and Market Classes of Cattle and Sheep.....	2	.....
A. H. 122x. Types and Market Classes of Hogs, Horses and Mules .....	.....	2
D. M. 131x. Principles of Dairy Manufacturing	3	.....
P. H. 131x. Farm Poultry .....	.....	3
Hort. 131x. Plant Propagation	3	.....
Agron. 131x. The Fundamentals of Crop Production .....	.....	3
Bot. 131x-2x. General Botany	3	3
Chem. 131x-2x. General Chemistry	3	3
Eng. 131x-2x. Freshman Composition	3	3
G. A. 111x. Orientation for Agricultural Students	1	.....
P. E. 113x-4x. or M. S. 113x-4x. Physical Education or Military Science	1	1
	19	18

Sophomore Year

A. H. 231x. Breeds of Livestock .....	.....	3
D. M. 222x. The Dairy Manufacturing Industry .....	.....	2
Agron. 221x. Soils	2	.....
Hort. 231x. Vegetable Gardening .....	.....	3
Ag. Eco. 233x. Economics, Principles, and Theory	3	.....
Ag. Eco. 234x. Principles of Agricultural Marketing .....	.....	3
Chem. 341x. Organic Chemistry	4	.....
Chem. 220x. Qualitative Analysis	2	.....
Bact. 231x. Bacteriology .....	.....	3
Math. 231x-2x. Mathematics for Students of Agriculture	3	3
Eng. 234x. Special Work on Correct Usage	3	.....
P. E. 213x-4x. or M. S. 213x-4x. Physical Education or Military Science	1	1
	18	18

Junior Year

A. H. 321x. Advanced Livestock Judging	2	.....
A. H. 322x. Farm Meats	2	.....
A. H. 331x. Animal Nutrition & Principles of Feeding .....	.....	3
Vet. 331x. Anatomy and Physiology	3	.....
Vet. 332x. Livestock Diseases and Parasites .....	.....	3
Agron. 331x. Forage and Pasture Crops	3	.....
Hort. 341x. Principles of Genetics .....	.....	4
Ag. Eco. 325x. Farm Records and Accounts .....	.....	2
A. E. 331x. Statistical Problems	3	.....
Speech. 131x. Fundamentals of Speech .....	.....	3
Electives	4	3
	17	18

Senior Year

G. A. 411x. Agricultural Lectures	1	.....
A. H. 411x. Animal Husbandry Seminar .....	.....	1
A. H. 422x. Animal Breeding	2	.....
A. E. 423x. Farm Management	2	.....
Govt. 320x. American Govt., National and State	2	.....
Departmental electives from the following list	5 or 6	6
A. H. 421x. Purebred Herds and Flocks.		
A. H. 431x. Beef Production.		
A. H. 432x. Horse Production.		
A. H. 433x. Sheep Production.		
A. H. 434x. Swine Production.		
A. H. 435x. Dairy Cattle Production.		
P. H. 431x. Poultry Production		
Electives	4	9-10

16-17 16-17

CURRICULUM IN DAIRY MANUFACTURES

Semester Hours
Sem. I Sem. II

Freshman Year

D. M. 131x. Principles of Dairy Manufacturing	3	.....
P. H. 131x. Farm Poultry		3
Hort. 131x. Plant Propagation	3	.....
Agron. 131x. The Fundamentals of Crop Production		3
A. H. 121x. Types and Market Classes of Cattle and Sheep.....	2	.....
A. H. 122x. Types and Market Classes of Hogs, Horses and Mules		2
Bot. 131x-2x. General Botany	3	3
Chem. 131x-2x. General Chemistry	3	3
Eng. 131x-2x. Freshman Composition	3	3
G. A. 111x. Orientation for Agricultural Students	1	.....
P. E. 113x-4x. or M. S. 113x-4x. Physical Education or Military Science	1	1
	19	18

Sophomore Year

D. M. 222x. The Dairy Manufacturing Industry		2
Bact. 231x. Bacteriology		3
Chem. 341x. Organic Chemistry	4	.....
Chem. 220x. Qualitative Analysis	2	.....
Ag. Eco. 233x. Economics, Principles, and Theory	3	.....
Ag. Eco. 234x. Principles of Agricultural Marketing		3
A. H. 231x. Breeds of Livestock		3
Agron. 221x. Soils	2	.....
Hort. 231x. Vegetable Gardening		3
Math. 231x-2x. Mathematics for Students of Agriculture	3	3
Eng. 234x. Special Work on Correct Usage	3	.....
P. E. 213x-4x or M. S. 213x-4x. Physical Education or Military Science	1	1
	18	18

Junior Year

D. M. 323x. Market Grades and Classification of Dairy Products		2
D. M. 321x. Technical Control of Dairy Products	2	.....
D. M. 322x. Dairy Plant Equipment	2	.....
D. M., 331x-2x. Market Milk and Inspection	3	3
D. M. 335x. Dairy Bacteriology		3
A. H. 331x. Animal Nutrition and Principles of Feeding		3
A. E. 331x. Statistical Problems	3	.....
Speech 131x. Fundamentals of Speech	3	.....
Hort. 341x. Principles of Genetics		4
Electives from either Group A, B, or C below	4	2
	17	17

Senior Year

G. A. 411x. Agricultural Lectures	1	.....
D. M. 411x. Dairy Manufactures Seminar		1
D. M. 420x. Dairy Products Merchandising	2	.....
D. M. 421x. Creamery Organization and Control		2
D. M. 422x. Dairy Technology		?
D. M. 431x. Cheese Making	3	.....
D. M. 433x. Ice Cream Making		3
D. M. 441x. Butter Making	4	.....
Govt. 320x. American Government, National and State	2	.....
Electives from either Group A, B, or C below	5	8
	17	16

CURRICULUM IN PLANT INDUSTRY

Agronomy Option

Semester Hours
Sem. I Sem. II

Freshman Year

Bot. 131x-2x. General Botany	3	3
Hort. 131x. Plant Propagation	3	
Agron. 131x. The Fundamentals of Crop Production		3
Chem. 131x-2x. General Chemistry	3	3
Eng. 131x-2x. Freshman Composition	3	3
A. H. 121x. Types and Market Classes of Cattle and Sheep	2	
A. H. 122x. Types and Market Classes of Hogs, Horses and Mules		2
D. M. 131x. Principles of Dairy Manufacturing	3	
P. H. 131x. Farm Poultry		3
G. A. 111x. Orientation for Agricultural Students	1	
P. E. 113x-4x. or M. S. 113x-4x. Physical Education or Military Science	1	1
	19	18

Sophomore Year

Agron. 221x. Soils	2	
Hort. 231x. Vegetable Gardening		3
Chem. 341x. Organic Chemistry	4	
Chem. 220x. Qualitative Analysis	2	
Bact. 231x. Bacteriology		3
Math. 231x-2x. Mathematics for Students of Agriculture	3	3
Eng. 234x. Special Work on Correct Usage	3	
Ag. Eco. 233x. Economics, Principles, and Theory	3	
Ag. Eco. 234x. Principles of Agricultural Marketing		3
A. H. 231x. Breeds of Livestock		3
D. M. 222x. The Dairy Manufacturing Industry		2
P. E. 123x-4x. or M. S. 213x-4x. Physical Education or Military Science	1	1
	18	18

Junior Year

Agron. 331x. Forage and Pasture Crops	3	
**Agron. 433x. Advanced Crop Judging and Grain Grading	3	
**Hort. 333x. Fruit Culture		3
Hort. 341x. Principles of Genetics		4
**P. I. 322x. Control of Insects and Diseases		2
T. E. 311x. Cotton Grading and Classing		1
Ag. Eco. 325x. Farm Records and Accounts		2
Ag. Eco. 331x. Statistical Problems	3	
A. H. 331x. Animal Nutrition and Principles of Feeding		3
Engr. Dwg. 223x. Agricultural Drawing		2
Speech 131x. Fundamentals of Speech	3	
Electives	5	
	17	17

Senior Year

*Agron. 332. Grain Crops		3
*Agron. 421x. Cotton and Other Fiber Crops	2	
Agron. 431x. Soil Management		3
Agron. 432x. Soil Management	3	
*P. I. 321x. Plant Insects and Diseases		2
P. I. 411x. Plant Industry Seminar		1
P. I. 431x. Advanced Plant Breeding and Improvement		3
G. A. 411x. Agricultural Lectures	1	
Ag. Eco. 423x. Farm Management	2	
Govt. 320x. American Government, National and State	2	
Electives	7	4
	17	16

*Given in alternate years; given in 1934-35.

**Given in alternate years; not given in 1934-35.

CURRICULUM IN PLANT INDUSTRY

	Horticulture Option		Semester Hours	
	Freshman Year		Sem. I	Sem. II
Bot. 131x-2x. General Botany	3	3		
Hort. 131x. Plant Propagation	3			
Agron. 131x. The Fundamentals of Crop Production		3		
Chem. 131x-2x. General Chemistry	3	3		
Eng. 131x-2x. Freshman Composition	3	3		
A. H. 121x. Types and Market Classes of Cattle and Sheep	2			
A. H. 122x. Types and Mkt. Classes Hogs, Horses and Mules		2		
D. M. 131x. Principles of Dairy Manufacturing	3			
P. H. 131x. Farm Poultry		3		
G. A. 111x. Orientation for Agricultural Students	1			
P. E. 113x-4x. or M. S. 113x-4x. Physical Education or M. S.	1	1		
			19	18
Sophomore Year				
Agron. 221x. Soils	2			
Hort. 231x. Vegetable Gardening		3		
Chem. 341x. Organic Chemistry	4			
Chem. 220x. Qualitative Analysis	2			
Bact. 231x. Bacteriology		3		
Math. 231x-2x. Mathematics for Students of Agriculture	3	3		
Eng. 234x. Special Work on Correct Usage	3			
Ag. Eco. 233x. Economics, Principles, and Theory	3			
Ag. Eco. 234x. Principles of Agricultural Marketing		3		
A. H. 231x. Breeds of Livestock		3		
D. M. 222x. The Dairy Manufacturing Industry		2		
P. E. 213x-4x. or M. S. 213x-4x. Physical Education or M. S.	1	1		
			18	18
Junior Year				
**Hort. 333x. Fruit Culture	3			
Hort. 341x. Principles of Genetics		4		
Agron. 331x. Forage and Pasture Crops	3			
**P. I. 322x. Control of Insects and Diseases		2		
A. H. 331x. Animal Nutrition and Principles of Feeding		3		
A. E. 325x. Farm Records and Accounts		2		
A. E. 331x. Statistical Problems	3			
Speech 131x. Fundamentals of Speech	3			
Departmental electives from the following list	3	3		
**Hort. 322x. Landscape Appreciation				
**Hort. 331x. Trees and Shrubs				
**Hort. 332x. Annuals and Perennials				
Hort. 336x-7x. Landscape Design				
**Hort. 421x. Citriculture				
Electives	3	3		
			18	17
Senior Year				
*Hort. 431x-2x. Advanced Pomology	3	3		
Agron. 431x. Soil Management		3		
Agron. 432x. Soil Management	3			
*P. I. 321x. Plant Insects and Diseases		2		
P. I. 411x. Plant Industry Seminar		1		
P. I. 431x. Advanced Plant Breeding and Improvement		3		
G. A. 411x. Agricultural Lectures	1			
Ag. Eco. 423x. Farm Management	2			
Govt. 320x. American Government, National and State	2			
Department electives from the following list	3	3		
*Hort. 334x-5x. Principles of Floriculture				
*Hort. 433x. Systematic Pomology				
Electives	3			
			17	15

*Given in alternate years; given in 1934-35.

**Given in alternate years; not given in 1934-35.

ELECTIVES

Prior to the beginning of the junior year the student in consultation with the head of the department, shall designate his electives. These electives must be approved by the head of the department and by the Dean of the Division of Agriculture.

Agricultural Economics

Electives must be selected from Groups I and II as follows:

Group I. Electives in Agriculture to complete a total of not to exceed 18 semester hours in any one subject or department.

Group II. Electives in any subjects or departments not selected in Group I, not to exceed a total of 18 semester hours in any one subject or department.

Not less than a year's work may be elected from any department unless a course is not continuous. Not more than three hours of elective work, in addition to the required work, may be credited from the Department of Agricultural Economics, except that Ag. Eco. 361x may be so elected.

Animal Husbandry

Not less than a year's work may be elected from any department unless a course is not continuous. Not more than three hours of elective work, in addition to the required work, may be credited from the Department of Animal Husbandry.

Dairy Manufactures

Group A. **General Agriculture minor:** Plant Industry, 9 hours; Animal Husbandry, 9 hours; Agricultural Economics, 6 hours.

Group B. **General Science minor:** Chemistry, 12 hours; Bacteriology, 6 hours; Physics, 6 hours.

Group C. **General Economics and Business Administration minor:** Business Administration, 9 hours; Economics (both Agricultural Economics and Economics), 9 hours; Psychology and Rural Sociology, 6 hours.

Agronomy

Not less than a year's work may be elected from any department unless a course is not continuous. Not more than three hours of elective work in addition to the required work, may be credited from Agronomy.

Horticulture

Not less than a year's work may be elected from any department unless a course is not continuous. Not more than three hours of elective work, in addition to the required work, may be credited from Horticulture.

SPECIAL REQUIREMENTS IN VOCATIONAL AGRICULTURE EDUCATION

The following are courses required in Vocational Agriculture Education not uniformly in all curricula and which must be taken either as required work, as electives, or as additional courses:

Ag. Eco. 325x	*A. H. 441x	Psy. 231x
Ag. Eco. 423x	Ed. 234x	R. S. 421x
Ag. Ed. 441x-2x	Engr. Dwg. 223x	R. S. 422x
Agron. 332x	P. H. 431x	T. E. 311x
Agron. 432x	P. I. 321x or 322x	Vet. 332x
A. H. 322x		

Optional courses which may be required:

Agron. 421x or A. H. 321x	Hort. 433x
D. M. 331x	Journalism, 3 hours
Farm Shop, 3 hours	

*Not required if 9 hours credit is made in senior Animal Husbandry courses.

DEPARTMENT OF AGRICULTURAL ECONOMICS,
FARM MANAGEMENT, AND RURAL SOCIOLOGY

Professors Ellsworth, Leidigh. President Knapp.

The objective in this department is to provide instruction leading to the solution of the basic economic problems of technologically trained students and in the business aspects of farming and ranching. Emphasis is placed on a study of consumer demand for agricultural products and of the methods best adapted to supplying such demand most economically, to increasing the standards of living of farm people, and to improving the agricultural industry as a whole.

In addition to providing instruction required of all Agricultural students, courses are provided for students who wish preparation for research positions and commercial and industrial vocations closely allied with agriculture. The degree of Bachelor of Science with a major in Agricultural Economics is offered on the completion of four years work in the department. While most of the work offered is specifically for students majoring in these subjects, all students in the College who present the proper prerequisites may enroll in the courses in this department.

AGRICULTURAL ECONOMICS

- 231x-2x. *Principles and Theories of Economics*. Cr. 3 (3-0). Sems. I and II. Prerequisite: Sophomore standing. Analysis of fundamental economic theories and principles and their applications to the professional life of the technologically trained students of agriculture, engineering, and home economics. Problems in economic and technical production and consumption, competition, transportation, taxation, mechanization, specialization, money, exchange, labor. Assigned readings in current economic problems of personal interest.
- 233x. *Principles and Theories of Economics*. Cr. 3 (3-0). Sems. I and II. Prerequisite: Sophomore standing. The same general subject matter as in 231x-2x except that it is covered in one semester. For students in the technological departments who wish a brief working concept of economic theory, to be followed by its application to their vocations.
- 234x. *Principles of Agricultural Marketing*. Cr. 3 (2-3). Sem. II. (Formerly 232). Prerequisite: Ag. Eco. 233x or its equivalent. The principles of marketing agricultural commodities. The application of economic fundamentals to the sale and purchase of farm products and supplies. Current changes in marketing conditions, consumer demand, price relationship, and natural and artificial control of sales functions. Field trips to local marketing institutions.

- 321x. *Cooperation in Agriculture*. Cr. 2 (2-0). Sem. I (Formerly 333). Prerequisite: Ag. Eco. 234x. Development, importance, and fundamental principles underlying cooperative purchasing, and cooperative production. Pooling systems, membership contracts, and laws affecting cooperative action of rural people. Several field trips to study existing West Texas cooperatives. Given in alternate years; Not given in 1934-35.
- 322x. *Marketing Agricultural Products*. Cr. 2 (2-0). Sem. II. (Formerly 337). Prerequisite: Ag. Eco. 234x. Problems and practices involved in the marketing of specific commodities as cotton, wheat, beef, hogs, dairy products, poultry, as especially adapted to the conditions of West Texas. Each student devotes most of his time in the course studying the marketing of a commodity of his choice. Given in alternate years; given in 1934-35.
- 325x. *Farm Records and Accounts*. Cr. 2 (2-0). Sem. II. (Formerly 335). Prerequisite: Junior standing. Application of principles and theory of accounting to farm and ranch business. Formulation and interpretation of farm records, including single enterprise cost accounts, complete cost accounts, and farm inventories. Analysis and adaption of various methods of farm bookkeeping and accounting.
- 326x. *Field Problems in Farm Management*. Cr. 2. (0-6). S. Prerequisite; Permission of the instructor. A field trip of two weeks of about two thousand miles, studying various type farms and markets in Texas. Carefully planned itinerary providing stops for study at typical farms and ranches in the regions of the Edwards Plateau, Rio Grande Valley, Coast Prairie, Black Prairie, and the High Plains. Markets in the large cities, also the experiment stations and colleges enroute, visited. Expenses: about forty to fifty dollars including registration, transportation, meals, and lodging.
- 331x. *Statistical Problems*. Cr. 3 (3-0). Sem. I. (Formerly 334). Prerequisite: Junior standing, one year of mathematics. 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, error, index numbers, trends, cycles, correlation.
- 361x. *Field Problems in Agricultural Economics*. Cr. 6. S. Prerequisite: Permission of the instructor. A field trip of six weeks of from four to five thousand miles, studying improved agricultural practices and visiting points of interest in leading agricultural states. A detailed itinerary will include stops in each state enroute where studies will be made with the assistance of the authorities of the respective state agricultural colleges and of the

United States Department of Agriculture. Expenses: About \$175, including registration, transportation, meals, lodging.

- 411x-2x. *Agricultural Economics Seminar*. Cr. 1 (1-0). Sems. I and II. (Formerly 411-2-3). Prerequisite: Senior standing, permission of the instructor. A discussion of current problems in the economics of agriculture. Topics and assigned readings, reports, and discussions.
- 421x. *Land Economics*. Cr. 2 (2-0). Sem. I. (Formerly 431). Prerequisite: Junior standing. Land as a factor of production; classification and utilization of land; land income, tenure, calculation, property rights, deeds, credit, taxation. Given in alternate years; given in 1934-35.
- 422x. *Agricultural Prices and Forecasting*. Cr. 2 (2-0). Sem. II. (Formerly 433). Prerequisite: Ag. Eco. 331. The application of statistical methods to the refinement and practical use of agricultural prices and forecasting. Original research applied to one agricultural commodity of the student's choice. Given in alternate years; not given in 1934-35.
- 423x. *Farm Management*. Cr. 2 (1-3). Sem. I. (Formerly 432). Prerequisite: Senior standing. 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. Field trips to nearby farms.

RURAL SOCIOLOGY

- 221x. *Principles of Boy Scouting*. Cr. 2 (1-3). Sem. II. Open to men only. Lectures, demonstrations, hikes. Leadership of young men. Theory, methods, and practice of boy scout subject matter. Alternates with 222x; not given in 1934-35.
- 222x. *Principles of Scoutmastership*. Cr. 2 (2-0). Sem. II. Problems involved in the training of boys. Principles of education applied to the boy scout program and to methods of leadership. Lectures by specialists. Discussion. Alternates with 221x; given in 1934-35.
- 421x. *Methods of Research and Extension*. Cr. 2 (1-3). Sem. I. Prerequisite: Junior or senior standing. Methods used in agricultural and home economics research and extension. Problems confronting research workers, county agents, and home demonstration agents. Use and development of rural leadership and institutions in the improvement of rural life. Taught by President Knapp.

422x. *Rural Sociology*. Cr. 2 (2-0). Sem. II. Prerequisite: Junior or senior standing. Rural institutions and how they may be utilized to improve standards of living of rural people. The human element in rural life. The interrelation of rural and urban interests. Community and personal relationships and attitudes. Progressive and disorganizing tendencies as influenced by the economic situation. Methods of dealing with the problems involved. Taught by Dean Leidigh.

Courses in this department which may be taken for graduate credit are: Ag. Eco. 321x, 322x, 325x, 331x, 361x, 411x-2x, 421x, 422x, 423x; R. S. 421x, 422x.

VOCATIONAL AGRICULTURE EDUCATION

Associate Professor Luker.

The curriculum in Agricultural Education is designed to qualify the prospective teacher of vocational agriculture to teach under the Federal Vocational Education (Smith-Hughes) Act, and to supplement the student's instruction in technical and professional agriculture. To secure approval the prospective teacher must receive the degree Bachelor of Science in Agriculture. The flexibility of the course permits sufficient range in the choice of electives to permit students majoring in the several fields of technical agriculture to qualify without undue loss of time.

A minimum of two years of farm experience after the fourteenth birthday is an important part of the requirements.

There must be included in the courses taken in college a number of uniformly required courses, most of which are included in the four-year curricula, but some do not appear uniformly in all of them. These required courses may be a part of the requirements of the curriculum followed, or may be suitable for use as supervised electives in that curriculum, or may be met in addition to all of the requirements for the degree in the curriculum which the student has followed. It will be noted that some of the required courses are suitable for advanced credit if properly petitioned for in advance of enrolment. As a rule the student is advised to enter upon these required courses at the beginning of the junior year and to make those not already in his curriculum part of his electives. As certain courses are given during the summer session it is best to plan to secure credit in at least twelve hours in that way. The work required is too heavy for accomplishment in four years by any except an "A" student unless this is done.

Courses required in Vocational Agriculture Education not uniformly in all curricula and which must be taken either as required work, as electives, or as additional courses are:

Ag. Eco. 325x	Engr. Dwg. 223x
Ag. Eco. 423x	P. H. 431x
Ag. Ed. 441x-2x	P. I. 321x or 322x
Agron. 332x	Psy. 231x
Agron. 432x	R. S. 421x
A. H. 322x	R. S. 422x
*A. H. 441x	T. E. 311x
Ed. 234x	Vet. 332x
Optional courses which may be required are:	
Agron. 421x or A. H. 321x	Hort. 433x
D. M. 331x	Journalism, 3 hours
Farm Shop, 3 hours	

Certificate requirements for other purposes than for Vocational Agriculture Education must be met by additional work.

421x. *Future Farmer Activities*. Cr. 2 (2-0). S. Prerequisite: Ag. Ed. 441x-2x or the equivalent; graduate standing in Agriculture. Methods of conducting and promoting group activities of immediate importance to future farmers.

431x. *Evening Schools*. Cr. 3 (3-0). S. Prerequisite: Ag. Ed. 441x-2x or the equivalent; graduate standing in Agriculture. Adult education for farmers. Organization, plans, and participation work. Course content, sustained continuity, and analysis of methods. Much of the work done in the field.

441x-2x. *Methods of Teaching Vocational Agriculture*. Cr. 4 (4-0). Sems. I and II. Prerequisite: Ed. 234x, Psy. 231x; senior standing in Agriculture. Analyzing the vocational agriculture teacher's job. The project method of teaching. The long time program, annual teaching plan, equipment, reports, daily lesson planning, exhibits and displays. Opportunity for participation work in observation and directed teaching of evening and all-day classes. Much of the work done in the field.

443x. *Advanced Supervised Practice*. Cr. 4 (4-0). S. Prerequisite: Ag. Ed. 441x-2x or the equivalent; graduate standing in Agriculture. Methods of conducting, scoring, and evaluating supervised practice in vocational agriculture. Problems. Much of the work done in the field.

All of the courses in Vocational Agriculture Education may be taken for graduate credit.

*Not required if 9 hours credit is made in senior Animal Husbandry courses.

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. It is the function of this department to furnish the student with the instruction and the facilities for developing a background of sound principles, information, and skill which will enable him either to conduct livestock enterprises, or to engage in general farming, in which the production and utilization of livestock become integral parts of his system of farming.

Students may major in Animal Husbandry as candidates for the degree of Bachelor of Science in Agriculture. Several of the courses offered are required of all Agriculture students, but any student in the College who has the prerequisites may enroll in any of the courses offered.

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 with silo, two horse barns, and a central hog house. In addition to large permanent pastures, there are also forty acres in sheep pastures, twenty acres in hog pastures, and ten acres in a poultry farm, all fenced and cross fenced and provided with housing facilities. Laboratory equipment for instruction in veterinary science, poultry brooding and incubation, and livestock feeding and production is also available.

ANIMAL HUSBANDRY

- 121x. *Types and Market Classes of Cattle and Sheep*. Cr. 2 (1-3). Sem. I. (Formerly 134). The cattle and sheep industries. Description and value of types. Markets and market classifications. Slaughtering, carcasses, and packing house by-products. Wools and wool growing. Scorecard and comparative judging.
- 122x. *Types and Market Classes of Hogs, Horses and Mules*. Cr. 2 (1-3). Sem. II. (Formerly 135). The hog, horse and mule industries. Description of types. Hog slaughtering, carcasses, and packing house by-products. Horse anatomy. Markets and market classes. Scorecard and comparative judging.
- 231x. *Breeds of Livestock*. Cr. 3 (3-0). Sem. I and Sem. II. (Formerly 232 or 221x). Prerequisite: A. H. 121x, 122x. The development of the breeds of farm animals. Special emphasis up-

on the work of recent prominent breeders and the merits of individual animals.

- 321x. *Advanced Livestock Judging*. Cr. 2 (0-6). Sem. I. (Formerly 331). Prerequisite: A. H. 221x, junior standing. Contrasting study and comparative show yard judging and grading of cattle, horses, mules, sheep, and swine. Selection of breeding and market animals. Inspection trips to farm herds, flocks, and leading livestock shows.
- 322x. *Farm Meats*. Cr. 2 (0-6). Sem. II. (Formerly 436). Prerequisite: A. H. 121x, 122x. Form, quality, and condition as affecting dressing percentage and quality of carcass. Slaughtering, dressing, cutting, and curing. Uses and market demands. Class limited to not more than sixteen.
- 323x. *Dairy Cattle*. Cr. 2 (1-3). Sem. II. Prerequisite: A. H. 121x. Origin, history, and characteristics of breeds. Outstanding breeders, families, and individuals. Judging. Advanced registry.
- 331x. *Animal Nutrition and Principles of Feeding*. Cr. 3 (2-3). Sem. I. (Formerly 341). Prerequisite: A. H. 121x, 122x. Chem. 341x. Chemical composition of plants and animals. Digestion and metabolism. Digestibility, energy, and manurial value of feeds. Feeding standards and feeds. Feed requirements and calculation of rations for maintenance, growth, fattening, milk and wool production, and work. Practical feeding of laboratory animals.
- 411x. *Animal Husbandry Seminar*. Cr. 1 (1-0). Sem. II. (Formerly 411). Prerequisite: Senior standing in Animal Husbandry. Assigned subjects. Review of recent investigations. Reports and discussions.
- 421x. *Purebred Herds and Flocks*. Cr. 2 (0-6). Sem. I. (Formerly 430). Prerequisite: A. H. 321x. Blood lines, outstanding individuals, and selection of foundation sires and females.
- 422x. *Animal Breeding*. Cr. 2 (2-0). Sem. I. (Formerly 438). Prerequisite: Hort. 341x. Genetics applied to the improvement of farm animals. Fertility and sterility. Systems of breeding.
- 423x. *Research Problems in Animal Husbandry*. Cr. 2 (2-0). Sem. II. (Formerly 439). Prerequisite: Open only to seniors in Animal Husbandry having satisfactory scholastic records. Investigations of a recent problem in the field of animal husbandry of special interest to individual students, and preparation of thesis.
- 431x. *Beef Production*. Cr. 3 (3-0). Sem. I. (Formerly 431). Prerequisite: A. H. 331x. The beef cattle industry. Breed-

ing, feeding, and marketing. Purebred herd and range management. Cattle ranching. Fitting for show and showing. Disease control.

- 432x. *Horse Production*. Cr. 3 (3-0). Sem. II. (Formerly 432). Prerequisite: A. H. 331x. Review of the horse and mule industry. Breeding, feeding, breaking, training, stabling, harness and harnessing, and shoeing. Fitting for sale and show. Caring for brood mare and foal, stallion, and jack. Parasites and diseases.
- 433x. *Sheep Production*. Cr. 3 (3-0). Sem. II. Formerly 433). Prerequisite: A. H. 331x. The sheep industry. Adaption of breeds. Breeding, feeding, shearing, and marketing. Farm flock and range management. Fitting for show and showing. Parasites and diseases.
- 434x. *Swine Production*. Cr. 3 (3-0). Sem. II. (Formerly 434). Prerequisite: A. H. 331x. The swine industry. Breeding, feeding, housing, marketing. Fitting for show and showing. Diseases, parasites, and sanitation.
- 435x. *Dairy Cattle Production*. Cr. 3 (3-0). Sem. I. (Formerly 435). Prerequisite: A. H. 331x. The dairy industry. Feeding for growth, maintenance, and milk production. Handling and marketing milk and animals. Dairy barn construction and sanitation. Advanced registry and herd records.
- 441x. *Livestock Production*. Cr. 4 (3-3). Sem. II. Prerequisite: A. H. 331x. A modified course of A. H. 431x, 432x, 433x, 434x, and 435x. Problems. Feeds; feeding and managing of beef and dairy cattle, hogs, horses, mules, and sheep. For non Animal Husbandry majors.

POULTRY HUSBANDRY

- 131x. *Farm Poultry*. Cr. 3 (2-3). Sem. I and Sem. II. (Formerly A. H. 231). The poultry industry. Classes, breeds, and varieties. Judging, culling, breeding, feeding, housing, and marketing. Diseases and sanitation.
- 221x. *Principles of Poultry Production*. Cr. 2 (1- 3). Sem. II. (Formerly A. H. 233). Culling, incubation, brooding, feeding, housing, management, sanitation, judging, and marketing of farm poultry flocks. For Home Economics students who plan to become home demonstration agents.
- 331x. *Incubation and Brooding*. Cr. 3 (1-6). Sem. II. (Formerly A. H. 322 and 323). Prerequisite: P. H. 131x. Selection and care of eggs for hatching. Operation of incubator. Removing the hatch. Operation of a brooder for four weeks. Management and feeding of chicks until six weeks of age.

- 431x. *Poultry Production*. Cr. 3 (2-3). Sem. II. (Formerly A. H. 437). Prerequisite: P. H. 131x, and A. H. 331x. The poultry industry. Breeding, hatching, brooding, feeding for egg production and market, marketing and housing. Grades and classes. Disease control, parasites, and sanitation.

VETERINARY SCIENCE

- 331x. *Anatomy and Physiology*. Cr. 3 (2-3). Sem. I. (Formerly Vet. 331 and 332). Prerequisite: A. H. 121x, 122x. The skeletal, muscular, digestive, circulatory, respiratory, and reproductive organs of farm animals. The physiology of the blood, lymph, circulatory, and respiratory systems, ductless glands, digestion, absorption, and organs of elimination.
- 332x. *Livestock Diseases and Parasites*. Cr. 3 (3-0). Sem. II. (Formerly Vet. 333). The common infectious and non-infectious diseases. Common external and internal parasites. Prevention, treatment, and sanitation.

Courses in this department which may be taken for graduate credit are: 331x, 411x, 422x, 431x, 432x, 433x, 434x, 435x, and 441x.

DEPARTMENT OF DAIRY MANUFACTURES

Professor Renner. Instructors Pederson, Prichard.

The Department of Dairy Manufactures offers courses designed to instruct the student in the fundamentals of the science of dairying. Special courses are offered in those technical subjects which prepare the student to become a dairy plant operator. The general curriculum of the department is so arranged that courses of instruction relating to industries closely allied with the dairy industry may be selected. Special emphasis is placed on liberal instruction in agriculture and in the fundamental sciences.

Certain courses in this department are required of all Agriculture students. While much of the work taught is planned specially for students majoring in this technical subject, all students in the College who have the proper prerequisites may enroll in these courses.

The department maintains a small dairy plant equipped for use in teaching courses in dairy manufactures. Local dairy plants are available for laboratory work in advanced classes. A small dairy laboratory is maintained with sufficient scientific equipment for making analyses of dairy products for individuals within the State. This service is done at the actual cost of performing the tests.

- 131x. *Principles of Dairy Manufacturing*. Cr. 3 (2-3). Sem. I and Sem. II. (Formerly 131). A general survey of the field

- of dairying. Composition of milk, milk analysis, manufacture of farm dairy products. Separators and milking machines.
- 222x. *The Dairy Manufacturing Industries*. Cr. 2 (2-0). Sem. I and Sem. II. Prerequisite: D. M. 131x. Development of the dairy manufacturing industries. Relationship to agriculture. Promotion, policies, regulations, and factory methods.
- 321x. *Technical Control of Dairy Products*. Cr. 2 (1-3). Sem. I. (Formerly 339). Prerequisite: D. M. 131x. Chemical and physical tests used in the manufacture of various dairy products. Laboratory control methods for the dairy plant.
- 322x. *Dairy Plant Equipment*. Cr. 2 (2-0). Sem. I. (Formerly 337). Equipment used in the dairy. Emphasis on steam boilers, refrigeration, motors, exhaust steam, insulation, steam and water fittings, plumbing, sewage disposal.
- 323x. *Market Grades and Classification of Dairy Products*. Cr. 2 (1-2). Sem. I and Sem. II. (Formerly 321 or 221x). Commercial grades and classifications of dairy products. Practice in judging milk, butter, cheese, and ice cream. Student contests.
- 331x-2x. *Market Milk and Inspection*. Cr. 3 (3-0, Sem. I) (2-3, Sem. II). Sems. I and II. (Formerly 331-2 and 435). Prerequisite: D. M. 131x, Bact. 231x. The fluid milk industry. Milk and public health. City, state and federal regulations and ordinances. Production, transportation, handling, retailing, wholesaling of milk, cost studies. Processing. Required field trip in second semester. Required of dairy manufactures majors.
- 333x. *Domestic Dairying*. Cr. 3 (2-3). Sem. I. (Formerly 330 and 338). Production and uses of milk for the home. Food value of dairy products, home manufacture of dairy products. Emphasis on quality dairy products. Scoring of milk, butter, cheese, and ice cream. For Home Economics students.
- 335x. *Dairy Bacteriology*. Cr. 3 (2-3). Sem. II. (Formerly 336). Prerequisite: D. M. 131x, Bact. 231x. Types of bacteria present in milk and milk products. Methods of control.
- 411x. *Dairy Manufactures Seminar*. Cr. 1 (1-0). Sem. II. (Formerly 411). Prerequisite: Senior standing in Dairy Manufactures. A review of scientific literature. Papers and reports. Class discussion.
- 420x. *Dairy Products Merchandising*. Cr. 2 (2-0). Sem. I. (Formerly 431). Prerequisite: Junior standing. Special practices, organization, ethics, and methods of merchandising dairy products.

- 421x. *Creamery Organization and Control*. Cr. 2 (2-0). Sem. II. (Formerly 443). Prerequisite: Junior standing. The organization and control of the dairy plant from a business standpoint. Labor control. Duties of plant manager, and relationship of manager to the business. Required field trip.
- 422x. *Dairy Technology*. Cr. 2 (2-0). Sem. II. (Formerly 440). Prerequisite: D. M. 131x, Bact. 231x, Chem. 341x. The manufacture of condensed milk and milk powder, malted milk, milk casein, commercial buttermilk and whey. Supplemented by field trips.
- 431x. *Cheese Making*. Cr. 3 (2-3). Sem. I. (Formerly 333). Prerequisite: D. M. 131x, Bact. 231x, Chem. 341x. Classification of foreign and domestic varieties of plain and fancy cheese. Manufacture of soft cheese and the more common varieties of semi-hard and hard cheeses.
- 432x. *Dairy Manufacturing Problems*. Cr. 3 (1-6). Sem. II. (Formerly 439). Prerequisite: Senior or graduate standing. Special phases of the dairy manufacturing industry.
- 433x. *Ice Cream Making*. Cr. 3 (2-3). Sem. II. (Formerly 436-7). Prerequisite: D. M. 131x, Bact. 231x, Chem. 341x. History and development of the ice cream industry. Ice cream ingredients; standardization and calculation of mixes. Processing. Cost studies. Supplemented by field trips.
- 441x. *Butter Making*. Cr. 4 (2-6). Sem. I. (Formerly 433-4). Prerequisite: D. M. 131x, Bacct. 231x, Chem. 341x. History of the butter industry. Manufacture of sweet and sour cream butter; neutralization; cream ripening; butter defects. Actual plant practice in the manufacture of butter.
- 531x-2x. *Thesis*. (0-9). Sems. I and II. Prerequisite: Graduate standing and consent of the Head of the Department. Scientific research in one of the following fields in the dairy industry: market milk, butter, cheese, ice cream, dairy bacteriology, condensed milk or milk powder.

Courses in this department which may be taken for graduate credit are: 331x-2x, 335x, 411x, 420x, 421x, 422x, 432x, 433x, 441x, 531x-2x.

DEPARTMENT OF PLANT INDUSTRY

Professors Russell, Leidigh. Associate Professor Woodbury.
Assistant Profesor Bell.

The Department of Plant Industry offers work in horticulture, agronomy, farm machinery, and genetics. While several of the courses presented are service courses and as such are required of all

students in Agriculture, the department offers an opportunity for students to major in options in Plant Industry as candidates for the degree of Bachelor of Science in Agriculture.

In view of the fact that, in addition to the fundamentals of agronomy and horticulture, these subjects require intimate local application, the department maintains field plots and an orchard and vineyard in which many varieties of farm crops, fruit trees and grapes are grown to illustrate practically all the material that it is possible to produce in this region. A nursery is maintained for instruction and practice in plant propagation. A small, well-equipped greenhouse is a part of the equipment.

The horticulture option includes instruction in the basic principles underlying plant propagation, orcharding, olericulture, floriculture, ornamentals, and landscape gardening. The agronomy option includes instruction in the basic principles of forage crop production, grain crops, crop breeding and improvement, pasture management, soils, soil fertility, and soil management, especially under sub-humid climatic conditions, and moisture utilization in irrigation farming and dry farming. The department also teaches the science of genetics particularly stressing its application to plant and animal improvement. Although most of the work taught in this department is offered for students majoring in these technical subjects, all students in the College who have the prerequisites may enroll in these courses. In some of the courses field trips are taken, and since the College is located in a highly developed and productive region, these trips are of great assistance to the student.

PLANT INDUSTRY

- 321x. *Plant Insects and Diseases*. Cr. 2 (2-0). Sem. II. (Formerly G. A. 339). Prerequisite: Junior standing in Agriculture. The most important fruit, vegetable, and crop insects and diseases. Given in alternate years; given in 1934-35.
- 322x. *Control of Insects and Diseases*. Cr. 2 (2-0). Sem. II. (Formerly Hort. 332). Prerequisite: Chem. 132x; junior standing in Agriculture. Sprays, methods of spraying, and spray calendars. Control of insects, fungus, and bacterial diseases of fruits, vegetables and crops. Given in alternate years: not given in 1934-35.
- 411x. *Plant Industry Seminar*. Cr. 1 (1-0). Sem. II. (Formerly Agron. 411-2 and Hort 411-2). Prerequisite: Senior standing in Plant Industry. Assigned readings. Current advances and thought. Informal discussion, oral reports, and papers.
- 431x. *Advanced Plant Breeding and Improvement*. Cr. 3 (3-0). Sem. II. (Formerly Agron. 438). Prerequisite: Hort. 341x and two advanced courses in the department. Practical appli-

cation of plant genetics in the breeding and improvement of plants. Research methods. The seed or the plant propagation farm.

- 432x. *Plant Industry Problems*. Cr. 3 (3-0). Sem. II. Prerequisite: P. I. 411x; open only to students having satisfactory scholastic records. An investigation of a problem in the field of special interest to the individual student concerned. Research. Preparation of thesis.

HORTICULTURE

- 131x. *Plant Propagation*. Cr. 3 (2-3). Sems. I and II. (Formerly Hort. 141). Prerequisite: Registration in Bot. 131x. Plant propagation, greenhouse and nursery practice. Propagation by seeds, cuttings, division, separation, budding and grafting.
- 231x. *Vegetable Gardening*. Cr. 3 (2-3). Sems. I and II. (Formerly Hort. 233). Prerequisite: Hort. 131x. The basic principles of market gardening and truck farming. Planning, planting, and caring for the home garden.
- 322x. *Landscape Appreciation*. Cr. 2 (2-0). Sem. II. (Formerly Hort. 337). Prerequisite: Junior standing. History of gardening. Basic principles of landscape design for city and farm homes. Practice work on landscape problems. The principal trees and shrubs.
- 324x. *Home Gardening*. Cr. 2 (1-3). Sem. II. (Formerly Hort. 131). Prerequisite: Junior standing. For non-agricultural students. Planning, planting, and caring for the home vegetable garden and orchard. Fertilizers, spraying, and hotbeds.
- 331x. *Trees and Shrubs*. Cr. 3 (3-0). Sem. I. (Formerly Hort. 321 and 322). Prerequisite: Junior standing. Identification, characteristics, and uses of shrubs, deciduous and evergreen trees of economic and ornamental importance. Given in alternate years; given in 1934-35.
- 332x. *Annuals and Perennials*. Cr. 3 (3-0). Sem. II. (Formerly Hort. 323). Prerequisite: Junior standing. Identification, characteristics, culture, and uses of annuals, perennials, bulbous crops, and outdoor roses. Given in alternate years; not given in 1934-35.
- 333x. *Fruit Culture*. Cr. 3 (2-3). Sem. I. (Formerly Hort. 331 and 341). Prerequisite: Hort. 131x, junior standing in Agriculture. Principles of fruit production; particularly, the home orchard. Tree fruits, grapes, and small fruits. Climatic, soil and water requirements. Varieties and cultural practices. Given in alternate years; not given in 1934-35.

- 334x-5x. *Principles of Floriculture*. Cr. 3 (2-3). Sems. I and II. (Formerly Hort. 238 and 432). Prerequisite: Hort. 131x, junior standing. Greenhouse construction, heating, and management. Culture of special greenhouse crops. Retail management, flower arrangement, and nursery management. Given in alternate years; given in 1934-35.
- 336x-7x. *Landscape Design*. Cr. 3 (1-6). Sems. I and II. (Formerly Hort. 3311-12-13). Prerequisite: Draw. 124x, Arch. 121x-2x, junior standing. Principles of landscape design: the city home, country estates, gardens, small city parks, and playgrounds.
- 341x. *Principles of Genetics*. Cr. 4 (3-3). Sems. I and II. (Formerly Hort. 338-9). Prerequisite: For Agriculture students, Bot. 131x-2x, Ag. Eco. 331x; for non-Agriculture students, Math. 131x. Heredity and variation of both plants and animals. History. The chromosome theory in higher animals; poultry, and insects. Biometry as applied to genetic data stressing economic plants and animals. The laboratory work may be modified for non-Agriculture students.
- 421x. *Citriculture*. Cr. 2 (2-0). Sem. I. (Formerly Hort. 434). Prerequisite: Registration in Hort. 333x, junior standing. Commercial production of citrus fruits, adaption, soil requirements, temperature, orchard heating, and irrigation. Given in alternate years; not given in 1934-35.
- 431x-2x. *Advanced Pomology*. Cr. 3 (3-0). Sems. I and II. (Formerly Hort. 435-6-7). Prerequisite: Hort. 333x, or registration in Hort. 433x. The principles underlying fruit production. Temperature, moisture, irrigation, nutrition, fruit setting of pomological fruits. Given in alternate years; given in 1934-35.
- 433x. *Systematic Pomology*. Cr. 3 (2-3). Sem. I. (Formerly Hort. 449). Prerequisite: Hort. 333x or registration in Hort. 431x. Nomenclature, variety description, classification, climatic and regional adaption. Practice in describing and identifying varieties of fruits. Given in alternate years; given in 1934-35.

AGRONOMY

- 131x. *The Fundamentals of Crop Production*. Cr. 3 (2-3). Sems. I and II. (Formerly Agron. 131). Prerequisite: Hort. 131x. A survey course. The importance and value of crops, their classification, identification, distribution, production, grading, and use. Tillage and elementary soils. Diseases and pests.

- 221x. *Soils*. Cr. 2 (2-0). Sems. I and II. (Formerly Agron. 235). Prerequisite: Agron. 131x, Chem. 131x. Origin, formation, classification of soils. Physical, chemical, and biological requirements. Organic matter, moisture, productiveness, adaption to use, and maintenance of soil fertility.
- 331x. *Forage and Pasture Crops*. Cr. 3 (2-3). Sem. I. (Formerly Agron. 331 and 437). Prerequisite: Agron. 131x, and one year of botany. The production, harvesting, storage, and uses of forage crops, green manure, and cover crops, hay and pasture crops. Identification of seeds and plants. Classification, life history, and economic value of adapted pasture plants. Injurious plants and their control. Pasture conservation, re-vegetation, and management.
- 332x. *Grain Crops*. Cr. 3 (2-3). Sem. II. (Formerly Agron. 332 and 431). Prerequisite: Agron. 131x, and one year of botany. The production, harvesting, storage, grading, and use of grain crops. Adaption, identification, and general improvement. Given in alternate years; given in 1934-35.
- 421x. *Cotton and Other Fiber Crops*. Cr. 2 (2-0). Sem. I (Formerly 333). Prerequisite: Junior standing in Agronomy. Culture and classification of cotton. Improvement of varieties. Diseases and insect pests of cotton. World cotton production. Given in alternate years; given in 1934-35.
- 431x. *Soil Management*. Cr. 3 (3-0). Sem. II. (Formerly Agron. 433, 434, 435). Prerequisite: Agron. 221x, 331x, 432x. Advanced soil conditions and plant growth. The nature and sources of plant nutrients, their liberation and conservation. Use of supplements and fertilizers. Irrigation.
- 432x. *Soil Management*. Cr. 3 (2-3). Sem. I. (Formerly Agron. 435, 436). Prerequisite: Agron. 221x, 331x, or the equivalent. Soil moisture conservation, run-off prevention, control of soil erosion, terracing, and supplemental water supply. Permanent farming under conditions of light or wide seasonal variations of rainfall.
- 433x. *Advanced Crop Judging and Grain Grading*. Cr. 3 (1-6). Sem. I. (Formerly 432). Prerequisite: Agron. 331x, 332x. The factors determining the quality and value of seeds, grains, and crop products. Farm and commercial considerations. Much practice in identification, grading, judging, and testing. Given in alternate years; not given in 1934-35.

FARM MACHINERY AND AGRICULTURAL ENGINEERING

Courses in farm machinery and in agricultural engineering and related subjects are now being developed. These will be offered in 1934-35, but the descriptive matter is not available at the time of printing this catalogue.

GENERAL AGRICULTURE

- 111x. *Orientation for Agricultural Students*. Cr. 1 (2-0). Sem. I and Sem. II. (Formerly 101-2-3). A survey of the field of agriculture. The relationship of the student to the college; habits of study; health; vocational guidance. Orientation lectures. Lectures by the Dean and various faculty members. Required of all freshmen students in the Division of Agriculture. Meets twice a week and requires one hour of preparation.
- 411x. *Agricultural Lectures*. Cr. 1 (1-0). Sem. I. (Formerly 411). Prerequisite: Senior standing in the Division of Agriculture. Reviews and recapitulations. The relationship of farmers and their co-workers with each other and with agricultural and other communities. Lectures on professional ethics and attitudes. Papers and references.

Courses in this department which may be taken for graduate credit are: P. I. 411x, 431x, 432x; Hort. 431x-2x, 433x; Agron. 421x, 431x, 432x.

DIVISION OF ENGINEERING

O. V. ADAMS, DEAN

The importance of the Division of Engineering in 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 Division 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 Division of Engineering is planned with the view of giving the student the essential basic training which he can not 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.

Engineering has been defined as "the scientific utilization of the forces and materials of nature in the construction, production and operation of works for the benefit of man." Therefore, the fundamental training of the engineer includes a knowledge of pure science, as well as its application to the various specialized fields. As an aid to the development of a scientific attitude, engineering instruction aims to emphasize the qualities of honesty, loyalty, thoroughness and industry, and to foster the desire for learning and for a knowledge of the ethics of the profession.

DEGREES GRANTED

The Division of Engineering offers four year curricula in:

Architectural Engineering	Mechanical Engineering
Chemical Engineering	Mechanical Engineering, Administrative Option
Civil Engineering	Textiles, Chemistry Option
Electrical Engineering	Textiles, Fabric Design Option
Geological Engineering	Textiles, Engineering Option
Industrial Engineering	
Industrial Education	

Each of the above leads to the degree of Bachelor of Science in its respective field. Also curricula leading to the degrees of Bachelor of Architecture and Bachelor of Commercial Art are offered in the Department of Architecture and Allied Arts. The Department of Industrial Engineering, Engineering Drawing, and

Industrial Education offers a two-year course not leading to a degree. Upon the satisfactory completion of this course a certificate of completion is given the student.

FIELD FOR GRADUATES

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.

Engineering training is recognized as desirable preparation for a commercial career. From sixty to seventy per cent of engineering graduates in the past have eventually held executive positions.

Surveys of employment records of engineering graduates disclose the fact that men who have had an engineering education have found their way into nearly every type of vocation. A few of the vocations which the engineering graduate may reasonably expect to enter upon graduation, or after a period of practical experience, have been indicated at the beginning of the departmental descriptions.

Attention is called to the fact that in a civilization such as ours where one is constantly in contact with the results of our modern industrial development, no type of education is more suitable than that leading to an engineering degree.

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.

The Mechanical Engineering shops are housed in the shops building and a portion of the Power Plant Building. Approximately 6,800 square feet of floor space are available for courses in wood work, machine shop foundry, sheet metal and welding.

The first unit of the 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 about 52,000 square feet. It includes offices for the Engineering faculty, and laboratories and class rooms for the departments of Architecture and Allied Arts; Civil, Electrical, and Mechanical Engineering; and Industrial Engineering, Engineering Drawing, and Industrial Education.

Approximately \$70,000 has been expended for apparatus for the laboratories mentioned above.

REGULATIONS

The regulations governing the students in the Division of Engineering are essentially the same as those applying to students of other divisions of the College.

Several regulations peculiar to this Division are given here.

TRANSCRIPTS

Students transferring from other colleges will be given credit for only 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, provided however that students transferring from colleges having three grade letters may, on the approval of the Dean, receive credit for work passed with an average grade of B. 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 30 semester hours in this institution.

REQUIREMENTS FOR GRADUATION

All four-year students in the Division of Engineering, except those in the Departments of Architecture and Allied Arts, and Industrial Education, are required to take identical work throughout the freshman year. This is done in order that the student, before choosing his professional field, may have the opportunity of becoming familiar with the courses of instruction and the possibilities after graduation in the various branches of engineering.

Freshmen students are required to take engineering orientation which includes lectures and motion picture showings on the scope and opportunities of the various branches of the engineering profession.

Electives in any curricula must be approved by the head of the department in which the student seeks a degree. This approval must be secured and filed in the office of the Dean before the student registers for the course.

Subjects to absolve extra hours required because of excessive absences or for deficiency in grade points must be approved by the Dean. No approval will be given to remove a deficiency in grade points until the student has substantially completed his required curriculum. This approval may not be retroactive.

CURRICULUM IN ARCHITECTURE

	Semester Hours	
	Sem. I	Sem. II
Freshman Year		
Eng. 131x-2x. Freshman Composition	3	3
Math. 121x-2x. College Algebra	2	2
Math. 131x. Trigonometry	3	
Math. 132x. Analytic Geometry		3
Engr. Dwg. 134x. Graphic Arts	3	
Arch. 125x. Shades and Shadows	2	
Arch. 2210x. Perspective		2
Engr. Dwg. 222x. Descriptive Geometry		2
Arch. 131x-2x. Elements of Architecture	3	3
Arch. 121x-2x. Freehand Drawing	2	2
Engr. Or. 111x. Engineering Orientation	1	
P. E. 113x-4x or M. S. 113x-4x. Physical Education or Military Science	1	1
	20	18
Sophomore Year		
Eng. 233x. Technical Writing	3	
Speech 131x. Fundamentals of Speech		3
Phys. 131x-2x. General Physics	3	3
Arch. 231x-2x. Architectural Design, Grade 1	3	3
Arch. 220x-1x. Principles of Drawing and Painting and Theory of Design	2	2
Arch. 222x-3x. History of Architecture	2	2
Arch. 3214x-15x. Building Construction	2	2
A modern language (French or German)	3	3
P. E. 213x-4x or M. S. 213x-4x. Physical Education or Military Science	1	1
	19	19
Junior Year		
Arch. 361x-2x. Architectural Design, Grade II	6	6
*C. E. 323x-4x. Structural Mechanics	2	2
Arch. 326x. Cast Figure Drawing	2	
Arch. 327x. Life Drawing		2
Arch. 322x-3x. History of Architecture	2	2
Arch. 321x. History of Early Civilizations and Art	2	
Arch. 324x. History of Sculpture		2
*Arch. 320x. History of Ornament and Furniture	2	
E. E. 335x. Wiring and Illumination		3
Govt. 320x. American Government, National and State	2	
	18	17
Senior Year		
Arch. 481x-2x. Architectural Design, Grade III	8	8
*Arch. 423x-4x. Life Drawing	2	2
Arch. 422x. Building Materials	2	
Arch. 421x. Estimating and Specification Writing		2
*Arch. 428x-9x. History of Painting	2	3
*Arch. 435x-6x. Advanced Architectural Construction	3	3
Arch. 420x. Professional Practice	2	
	19	17

* Courses to be offered in 1935-36.

CURRICULUM IN ARCHITECTURAL ENGINEERING

	Semester Hours	
	Sem. I	Sem. II
Freshman Year		
Eng. 131x-2x. Freshman Composition	3	3
Math. 121x-2x. College Algebra	2	2
Math. 131x. Trigonometry	3	.....
Math. 132x. Analytic Geometry .....	.....	3
Engr. Dwg. 132x-3x. Engineering Drawing	3	3
Phys. 133x-4x. Freshman Engineering Physics	3	3
Arch. 125x. Shades and Shadows	2	.....
Engr. Dwg. 222x. Descriptive Geometry .....	.....	2
Arch. 121x-2x. Freehand Drawing	2	2
Engr. Or. 111x. Engineering Orientation	1	.....
P. E. 113x-4x or M. S. 113x-4x. Physical Education or Military Science	1	1
	20	19
Sophomore Year		
Eng. 233x. Technical Writing	3	.....
Speech 131x. Fundamentals of Speech .....	.....	3
Math. 251x. Differential and Integral Calculus	5	.....
Phys. 231x-2x. Sophomore Physics	3	3
Arch. 131x-2x. Elements of Architecture	3	3
C. E. 331x. Applied Mechanics—Statics .....	.....	3
Arch. 222x-3x. History of Architecture	2	2
Arch. 220x-1x. Principles of Drawing and Painting and Theory of Design	2	2
Arch. 2210x. Perspective .....	.....	2
P. E. 213x-4x or M. S. 213x-4x. Physical Education or Military Science	1	1
	19	19
Junior Year		
Chem. 131x-2x. General Chemistry	3	3
C. E. 320x. Structures	2	.....
C. E. 332x. Applied Mechanics—Kinematics and Kinetics	3	.....
C. E. 333x. Applied Mechanics—Strength of Materials .....	.....	3
C. E. 330x. Structures .....	.....	3
M. E. 334x. Thermodynamics and Heat Engines	3	.....
Arch. 322x-3x. History of Architecture	2	2
Arch. 3214x-15x. Building Construction	2	2
Arch. 325x. Building Sanitation .....	.....	2
Arch. 231x-2x. Architectural Design, Grade I	3	3
	18	18
Senior Year		
Chem 220x. Qualitative Analysis .....	.....	2
Govt. 320x. American Government, National and State	2	.....
C. E. 220x. Surveying	2	.....
C. E. 431x-2x. Reinforced Concrete	3	3
C. E. 433x. Structures	3	.....
M. E. 435x. Mechanical Equipment of Buildings .....	.....	3
E. E. 335x. Wiring and Illumination .....	.....	3
Arch 421x. Estimating and Specification Writing .....	.....	2
Arch. 422x. Building Materials	2	.....
Arch. 420x. Professional Practice	2	.....
*Electives—One or more approved electives—3 to 6 hours.....	3	3
	17	16

*Must include Eco. 231x-2x.

CURRICULUM IN COMMERCIAL ART

	Semester Hours	
	Sem. I	Sem. II
Freshman Year		
Eng. 131x-2x. Freshman Composition	3	3
A foreign language. (French or German)	3	3
Math. 120x or 121x. Algebra	2	.....
Math. 131x. Plane Trigonometry .....	.....	3
Arch. 133x. Commercial Lettering .....	.....	3
Arch. 125x. Shades and Shadows	2	.....
Engr. Dwg. 222x. Descriptive Geometry .....	.....	2
Engr. Dwg. 134x. Graphic Arts	3	.....
Arch. 123x-4x. Elements of Composition	2	2
Arch. 121x-2x. Freehand Drawing	2	2
Engr. Or. 111x. Engineering Orientation	1	.....
P. E. 113x-4x or M. S. 113x-4x. Physical Education or Military Science	1	1
	19	19
Sophomore Year		
Eng. 233x. Technical Writing	3	.....
Speech 131x. Fundamentals of Speech .....	.....	3
A foreign language. (French or German)	3	3
Arch. 2210x. Perspective .....	.....	2
Arch. 2211x-12x. General History of Architecture	2	2
Arch. 220x-1x. Principles of Drawing & Painting, and Theory of Design	2	2
Arch. 131x-2x. Elements of Architecture	3	3
Arch. 228x-9x. Clay Modeling	2	2
Arch. 326x. Cast Figure Drawing	2	.....
Arch. 327x. Life Drawing .....	.....	2
P. E. 213x-4x or M. S. 213x-4x. Physical Education or Military Science	1	1
	18	20
Junior Year		
Psy. 230x. Introduction to Psychology	3	.....
Psy. 236x. Business Psychology .....	.....	3
Govt. 320x. American Government, National and State .....	.....	2
Arch. 321x. History of Early Civilizations and Art	2	.....
Arch. 324x. History of Sculpture .....	.....	2
Arch. 3210x. Pencil Rendering and Sketching	2	.....
Arch. 3211x. Pen and Ink Rendering .....	.....	2
*Arch. 320x. History of Ornament and Furniture	2	.....
*Arch. 3212x-13x. Commercial Illustration	2	2
*Arch. 333x-4x. Commercial Design	3	3
Approved Electives	3	3
	17	17
Senior Year		
*Arch. 423x-4x. Life Drawing	2	2
*Arch. 428x-9x. History of Painting	2	2
*Arch. 426x-7x. Oil Painting	2	2
*Arch. 4210x-11x. Decorative Figure Drawing	2	2
*Arch. 4212x-13x. Commercial Illustration	2	2
*Arch. 433x-4x. Commercial Design	3	3
B. A. 432x. Advertising	3	.....
Arch. 420x. Professional Practice	2	.....
B. A. 332x. Marketing .....	.....	3
	18	18

*Courses to be offered in 1935-36.

UNIFORM FRESHMAN YEAR FOR ENGINEERING STUDENTS

To be used in connection with curricula in Chemical, Civil, Electrical, Geological, and Mechanical Engineering, and the three Textile options.

	Semester Hours	
	Sem. I	Sem. II
Eng. 131x-2x. Freshman Composition	3	3
Chem. 131x-2x. General Chemistry	3	3
Math. 121x-2x. College Algebra	2	2
Math. 131x. Trigonometry	3	.....
Math. 132x. Analytic Geometry .....	.....	3
Phys. 133x-4x. Freshman Engineering Physics	3	3
Engr. Dwg. 132x-3x. Engineering Drawing	3	3
Engr. Or. 111x. Engineering Orientation	1	.....
P. E. 113x-4x or M. S. 113x-4x. Physical Education or Military Science	1	1
	19	18

CURRICULUM IN CHEMICAL ENGINEERING

	Semester Hours	
	Sem. I	Sem. II
Sophomore Year		
Chem. 220x. Qualitative Analysis	2	.....
Chem. 242x. Inorganic Chemistry .....	.....	4
Chem. 331x-2x. Quantitative Analysis	3	3
Phys. 231x-2x. Sophomore Physics	3	3
Math. 251x. Differential and Integral Calculus	5	.....
C. E. 331x. Applied Mechanics—Statics .....	.....	3
Eng. 233x. Technical Writing	3	.....
Speech 131x. Fundamentals of Speech .....	.....	3
P. E. 213x-4x or M. S. 213x-4x. Physical Education or Military Science	1	1
	17	17
Junior Year		
Chem. 343x-4x. Organic Chemistry	4	4
Chem. 441x-2x. Physical Chemistry	4	4
C. E. 332x. Applied Mechanics—Kinematics and Kinetics	3	.....
C. E. 333x. Applied Mechanics—Strength of Materials .....	.....	3
E. E. 426x-7x. Elements of Electrical Engineering	2	2
E. E. 412x-3x. Electrical Engineering Laboratory	1	1
German 131x-2x. A Beginning Course in German	3	3
Eco. 231x-2x. Principles of Economics	3	3
	20	20
Senior Year		
Chem. 431x-2x. Principals of Chemical Engineering	3	3
Chem. 443x-4x. Industrial Chemistry	4	4
Chem. 411x-2x. Chemistry Seminar	1	1
M. E. 334x-5x. Thermodynamics and Heat Engineering	3	3
M. E. 317x-8x. Heat Engineering Laboratory	1	1
M. E. 337x. Metallurgy .....	.....	3
Govt. 320x. American Government, National and State	2	.....
Ind. Engr. 421x-2x. Chemical Plant Design	2	2
	16	17

CURRICULUM IN CIVIL ENGINEERING

Semester Hours
Sem. I Sem. II

For Freshman Year See Page 101

Sophomore Year

Geol. 233x. General Geology for Engineers	3	
C. E. 231x-2x. Surveying	3	3
Phys. 231x-2x. Sophomore Physics	3	3
Math. 251x. Differential and Integral Calculus	5	
Math. 233x. Applications of the Calculus		3
Chem. 220x. Qualitative Analysis	2	
Engr. Dwg. 222x. Descriptive Geometry		2
C. E. 331x. Applied Mechanics—Statics		3
Eco. 231x-2x. Principles of Economics	3	3
P. E. 213x-4x or M. S. 213x-4x. Physical Education or Military Science	1	1
	20	18

Junior Year

C. E. 332x. Applied Mechanics—Kinematics and Kinetics	3	
C. E. 333x. Applied Mechanics—Strength of Materials		3
C. E. 334x. Surveying		3
C. E. 320x. Structures	2	
C. E. 330x. Structures		3
C. E. 321x. Highway Engineering		2
C. E. 335x. Highway Engineering	3	
C. E. 311x. Highway Laboratory		1
M. E. 334x-6x. Thermodynamics and Heat Engineering	3	3
Math. 321x. Elementary Differential Equations	2	
Eng. 233x. Technical Writing		3
Speech 131x. Fundamentals of Speech	3	
Bact. 321x. Bacteriology for Engineers	2	
	18	18

Senior Year

C. E. 431x-2x. Reinforced Concrete	3	3
C. E. 433x-4x. Structures	3	3
C. E. 410x. Hydraulics Laboratory		1
C. E. 420x. Hydraulics	2	
C. E. 421x. Engineering Administration	2	
C. E. 422x. Highway Administration and Finance		2
C. E. 423x. Highway Design		2
C. E. 424x-5x. Materials of Engineering	2	2
C. E. 426x. Water Supply and Sewage Disposal		2
E. E. 426x-7x. Elements of Electrical Engineering	2	2
E. E. 412x-3x. Electrical Engineering Laboratory	1	1
Govt. 320x. American Government—National and State	2	
	17	18

CURRICULUM IN ELECTRICAL ENGINEERING

Semester Hours
Sem. I Sem. II

For Freshman Year See Page 101

Sophomore Year

Eng. 233x. Technical Writing	3	.....
Chem. 220x. Qualitative Analysis		2
Math. 251x. Differential and Integral Calculus	5	.....
Math. 233x. Applications of the Calculus		3
Phys. 231x-2x. Sophomore Physics	3	3
Engr. Dwg. 221x. Machine Drawing	2	.....
Engr. Dwg. 222x. Descriptive Geometry		2
E. E. 230x. Principles of Electrical Engineering		3
M. E. 311x. Pattern Shop	1	.....
M. E. 312x. Foundry		1
M. E. 221x. Engineering Problems	2	.....
C. E. 331x. Applied Mechanics—Statics		3
Speech 131x. Fundamentals of Speech	3	.....
P. E. 213x-4x or M. S. 213x-4x. Physical Education or Military Science	1	1
	20	18

Junior Year

E. E. 331x-2x. Principles of Electrical Engineering	3	3
E. E. 321x-2x. Electrical Engineering Laboratory	2	2
C. E. 332x. Applied Mechanics—Kinematics and Kinetics	3	.....
C. E. 333x. Applied Mechanics—Strength of Materials		3
M. E. 334x-5x. Thermodynamics and Heat Engineering	3	3
M. E. 317x-8x. Heat Engineering Laboratory	1	1
M. E. 313x-4x. Machine Shop	1	1
Chem. 322x. Power Plant Chemistry		2
Math. 321x. Differential Equations	2	.....
Ag. Eco. 231x-2x. Principles and Theory of Economics	3	3
	18	18

Senior Year

E. E. 431x-2x. Alternating Current Machinery	3	3
E. E. 421x-2x. Electrical Engineering Laboratory	2	2
E. E. 423x-4x. Electrical Applications	2	2
E. E. 433x. Transmission	3	.....
E. E. 434x. Communication		3
E. E. 410x. Current Electrical Engineering	1	.....
C. E. 310x. Testing Laboratory		1
C. E. 420x. Hydraulics	2	.....
C. E. 220x. Elementary Surveying	2	.....
M. E. 333x. Kinematics of Machinery		3
Phys. 423x-4x. Electrical Measurements	2	2
Govt. 320x. American Government, National and State		2
	17	18

CURRICULUM IN GEOLOGICAL ENGINEERING

Semester Hours
Sem. I Sem. II

For Freshman Year See Page 101

Sophomore Year

Phys. 231x-2x. Sophomore Physics	3	3
Math. 251x. Differential and Integral Calculus	5	.....
Math. 233x. Application of the Calculus .....	.....	3
Chem. 220x. Qualitative Analysis .....	.....	2
C. E. 331x. Applied Mechanics—Statics .....	.....	3
Eng. 233x. Technical Writing	3	.....
Geol. 131x-2x. General Geology	3	3
Geol. 231x-2x. Mineralogy	3	3
P. E. 213x-4x or M. S. 213x-4x. Physical Education or Military Science	1	1
	18	18

Summer

Geol. 363x. Field Geology	6
---------------------------------	---	-------

Junior Year

C. E. 332x. Applied Mechanics—Kinematics and Kinetics	3	.....
C. E. 333x. Applied Mechanics—Strength of Materials .....	.....	3
Eco. 231x-2x. Principles of Economics	3	3
Engr. Dwg. 222x. Descriptive Geometry	2	.....
Geol. 333x. Petrology: Optical Mineralogy	3	.....
Geol. 334x. Petrology: Descriptive .....	.....	3
Geol. 335x-6x. General Paleontology	3	3
C. E. 231x-2x. Plane Surveying	3	3
C. E. 310x. Materials Laboratory .....	.....	1
	17	16

Senior Year

Govt. 320x. American Government, National and State	2	.....
Geol. 431x-2x. Advanced General Geology	3	3
Geol. 433x. Structural Geology	3	.....
Geol. 434x. Petroleum Geology .....	.....	3
Geol. 435x. Index Fossils	3	.....
Geol. 436x. Micropaleontology .....	.....	3
Geol. 422x. Geology of Texas	2	.....
Geol. 423x. Seminar .....	.....	2
Speech 131x. Fundamentals of Speech	3	.....
C. E. 334x. Surveying .....	.....	3
Elective .....	.....	3
	16	17

CURRICULUM IN INDUSTRIAL ENGINEERING

	Semester Hours	
	Sem. I	Sem. II
Freshman Year		
Engr. Dwg. 132x-3x. Engineering Drawing	3	3
Eng. 131x-2x. Freshman Composition	3	3
Chem. 131x-2x. General Chemistry	3	3
Math. 131x. Plane Trigonometry	3	
Math. 132x. Analytic Geometry		3
Math. 121x-2x. College Algebra	2	2
Phys. 133x-4x. Freshman Engineering Physics	3	3
M. E. 121x. General Wood Work		2
Engr. Or. 111x. Engineering Orientation	1	
P. E. 113x-4x or M. S. 113x-4x. Physical Education or Military Science	1	1
	19	20
Sophomore Year		
Engr. Dwg. 221x. Machine Drawing	2	
Engr. Dwg. 222x. Descriptive Geometry		2
Eng. 233x. Technical Writing	3	
Psy. 231x. Educational Psychology	3	
M. E. 221x. Engineering Problems	2	
M. E. 222x. Welding Practice		2
M. E. 211x. Sheet Metal Work		1
M. E. 311x. Pattern Shop	1	
M. E. 312x. Foundry Practice	1	
M. E. 313x. Machine Shop	1	
M. E. 314x. Machine Shop		1
Chem. 220x. Qualitative Analysis		2
Phys. 231x-2x. Sophomore Physics	3	3
Math. 251x. Differential and Integral Calculus		5
Speech 131x. Fundamentals of Speech	3	
P. E. 213x-4x or M. S. 213x-4x. Physical Education or Military Science	1	1
	20	17
Junior Year		
Engr. Dwg. 322x. Advanced Machine Drawing	2	
E. E. 438x-9x. Elements of Electrical Engineering	3	3
E. E. 412x-3x. Electrical Engineering Laboratory	1	1
Ind. Engr. 324x-5x. Production Planning & Control	2	2
B. A. 234x-5x. Introduction to Accounting	3	3
B. A. 331x. Corporation Finance		3
C. E. 220x. Elementary Surveying	2	
C. E. 331x. Applied Mechanics—Statics		3
Ind. Engr. 331x. Time and Motion Studies and Safety Engineering		3
Ind. Engr. 316x. Personnel Relations	1	
Govt. 320x. American Government, National and State	2	
*Elective	3	
	19	18
Senior Year		
C. E. 333x. Applied Mechanics—Strength of Materials		3
B. A. 334x-5x. Business Law	3	3
B. A. 336x. Industrial Management	3	
Ag. Eco. 233x. Principles & Theory of Economics	3	
Ind. Engr. 431x. Purchasing and Industrial Engineering Problems		3
Ind. Engr. 432x-3x. Seminar (Industrial Plant Design)	3	3
Eco. 431x. Transportation		3
Eco. 432x. Labor and Labor Problems	3	
Ind. Engr. 423x. Relation of Engineer to Society and Study of Published Statistics	2	
	18	15

*Must be in one branch of Engineering.

CURRICULUM IN INDUSTRIAL EDUCATION

	Semester Hours	
	Sem. I	Sem. II
Freshman Year		
Engr. Dwg. 132x-3x. Engineering Drawing	3	3
Eng. 131x-2x. Freshman Composition	3	3
Chem. 131x-2x. General Chemistry	2	2
Math. 121x-2x. College Algebra	3	
Math. 131x. Plane Trigonometry		3
Math. 132x. Analytic Geometry	3	3
Phys. 133x-4x. Freshman Engineering Physics		2
M. E. 121x. General Wood Work	1	
Engr. Or. 111x. Engineering Orientation		
P. E. 113x-4x or M. S. 113x-4x. Physical Education or Military Science	1	1
	19	20
Sophomore Year		
Engr. Dwg. 221x. Machine Drawing	2	
Engr. Dwg. 222x. Descriptive Geometry		2
Eng. 233x. Technical Writing		3
Psy. 231x. Educational Psychology	3	
M. E. 221x. Engineering Problems	2	
M. E. 222x. Welding Practice	2	
M. E. 211x. Sheet Metal Work		1
M. E. 311x. Pattern Shop	1	
M. E. 312x. Foundry Practice		1
M. E. 313x. Machine Shop	1	
M. E. 314x. Machine Shop		1
Phys. 231-2x. Sophomore Physics	3	3
Ed. 235x. High School Methods	3	
Math. 251x. Differential & Integral Calculus		5
Chem. 220x. Qualitative Analysis		2
P. E. 213x-4x or M. S. 213x-4x. Physical Education or Military Science	1	1
	18	19
Junior Year		
Speech 131x. Fundamentals of Speech	3	
E. E. 412x-3x. Electrical Engineering Laboratory	1	1
E. E. 426x-7x. Elements of Electrical Engineering	2	2
Arch. 3214x-15x. Building Construction	2	2
B. A. 234x-5x. Introduction to Accounting	3	3
C. E. 220x. Elementary Surveying	2	
M. E. 315x. Heat Treating of Steel		1
Govt. 320x. American Government, National and State		2
Ind. Ed. 331x. Educational & Vocational Guidance		3
Ind. Engr. 316x. Personnel Relations	1	
T. E. 231x. Textile Fibers & Fabrics		3
Ag. Eco. 233x. Principles & Theory of Economics	3	
Ind. Ed. 311x. History and Principles of Vocational Education	1	
	18	17
Senior Year		
Ind. Ed. 423x-4x. Industrial Arts Course-Making and Planning	2	2
Ind. Ed. 431x. Industrial Arts Practice Teaching		3
Ind. Ed. 425x-6x. Seminar	2	2
Education elective (required)	3	
B. A. 334x-5x. Business Law	3	3
B. A. 336x. Industrial Management	3	
M. E. 421x-2x. Advanced Laboratory Work	2	2
Engr. Dwg. 321x. Mechanical Drawing for Teachers	2	
*Minor elective	1	4
	18	16

*Suggested minor electives: Ind. Engr. 331x, Ed. 131x, Journalism, or Geology.

TWO-YEAR CERTIFICATE COURSE IN INDUSTRIAL ARTS

Semester Hours
Sem. I Sem. II

Freshman Year

Eng. 131x-2x. Freshman Composition	3	3
Engr. Dwg. 132x-3x. Engineering Drawing	3	3
Speech 131x. Fundamentals of Speech		3
Phys. 133x-4x. Freshman Engineering Physics	3	3
Math. 131x. Plane Trigonometry	3	
Chem. 131x-2x. General Chemistry	3	3
M. E. 121x. General Wood Work	2	
M. E. 211x. Sheet Metal Work		1
M. E. 222x. Welding Practice		2
Engr. Or. 111x. Engineering Orientation	1	
P. E. 113x-4x or M. S. 113x-4x. Physical Education or Military Science	1	1
	19	19

Sophomore Year

Eng. 233x. Technical Writing	3	
Engr. Dwg. 221x. Machine Drawing	2	
Engr. Dwg. 222x. Descriptive Geometry		2
B. A. 334x-5x. Business Law	3	3
Ag. Eco. 233x. Principles & Theory of Economics		3
M. E. 221x. Engineering Problems	2	
M. E. 311x. Pattern Shop	1	
M. E. 312x. Foundry Practice		1
M. E. 313x. Machine Shop	1	
M. E. 319x. Foundry Practice		1
*E. E. 231x-2x. Elements of Electrical Engineering	3	3
Govt. 320x. American Government, National and State		2
**Elective	3	3
P. E. 213x-4x or M. S. 213x-4x. Physical Education or Military Science	1	1
	19	19

*This course to be started second semester 1934-35.

**To be chosen from:

T. E. 231x, 232x, 221x, 222x, 311x.

Arch. 3214x-15x.

Speech 231x.

Physics

M. E. 421x-2x.

M. E. 314x.

Ind. Engr. 316x.

CURRICULUM IN MECHANICAL ENGINEERING

Semester Hours
Sem. I Sem. II

For Freshman Year See Page 101

Sophomore Year

Phys. 231x-2x. Sophomore Physics	3	3
Chem 220x. Qualitative Analysis	2	.....
Math. 251x. Differential and Integral Calculus	5	.....
Math. 233x. Applications of the Calculus .....	.....	3
Eng. 233x. Technical Writing .....	.....	3
Engr. Dwg. 221x. Machine Drawing .....	.....	2
Engr. Dwg. 222x. Descriptive Geometry	2	.....
Speech 131x. Fundamentals of Speech	3	.....
C. E. 331x. Applied Mechanics—Statics .....	.....	3
M. E. 221x. Engineering Problems	2	.....
M. E. 241x. Mechanisms .....	.....	4
P. E. 213x-4x or M. S. 213x-4x. Physical Education or Military Science	1	1
	18	19

Junior Year

M. E. 311x. Pattern Shop	1	.....
M. E. 312x. Foundry	1	.....
M. E. 313x-4x. Machine Shop	1	1
M. E. 315x. Heat Treating .....	.....	1
M. E. 316x. Shop Projects .....	.....	1
M. E. 331x-321x. Thermodynamics	3	2
M. E. 341x. Steam Power Plant Engineering	4	.....
M. E. 322x. Dynamics .....	.....	2
C. E. 332x. Applied Mechanics—Kinematics and Kinetics	3	.....
C. E. 333x. Applied Mechanics—Strength of Materials .....	.....	3
C. E. 310x. Testing Laboratory .....	.....	1
Eco. 231x-2x. Principles of Economics	3	3
M. E. 332x. Power Laboratory	3	.....
M. E. 337x. Metallurgy .....	.....	3
	19	17

Senior Year

M. E. 436x-7x. Machine Design	3	3
M. E. 431x. Power Laboratory	3	.....
M. E. 432x. Power Plant Design .....	.....	3
E. E. 438x-9x. Elements of Electrical Engineering	3	3
E. E. 412x-3x. Electrical Engineering Laboratory	1	1
M. E. 433x. Heating and Ventilation	3	.....
M. E. 434x. Industrial Engineering .....	.....	3
M. E. 438x. Internal Combustion Engines	3	.....
C. E. 420x. Hydraulics	2	.....
C. E. 410x. Hydraulics Laboratory .....	.....	1
Govt. 320x. American Government, National and State .....	.....	2
	18	16

**CURRICULUM IN MECHANICAL ENGINEERING,
ADMINISTRATIVE OPTION**

Semester Hours
Sem. I Sem. II

For Freshman Year See Page 101

Sophomore Year

Phys. 231x-2x. Sophomore Physics	3	3
Chem. 220x. Qualitative Analysis	2	.....
Math. 251x. Differential and Integral Calculus	5	.....
Math. 233x. Application of the Calculus .....	.....	3
M. E. 221x. Engineering Problems	2	.....
Eco. 231x-2x. Principles of Economics	3	3
B. A. 234x-5x. Introduction to Accounting	3	3
Eng. 233x. Technical Writing .....	.....	3
C. E. 331x. Applied Mechanics—Statics .....	.....	3
P. E. 213x-4x or M. S. 213x-4x. Physical Education or Military Science	1	1
	19	19

Junior Year

M. E. 311x. Pattern Shop	1	.....
M. E. 312x. Foundry	1	.....
M. E. 313x. Machine Shop	1	.....
M. E. 331x-321x. Thermodynamics	3	2
M. E. 317x-8x. Heat Engineering Laboratory	1	1
C. E. 332x. Applied Mechanics—Kinematics and Kinetics	3	.....
C. E. 333x. Applied Mechanics—Strength of Materials .....	.....	3
Speech 131x. Fundamentals of Speech .....	.....	3
M. E. 341x. Steam Power Plant Engineering	4	.....
M. E. 241x. Mechanisms .....	.....	4
B. A. 334x-5x. Business Law	3	3
M. E. 337x. Metallurgy .....	.....	3
	17	19

Senior Year

M. E. 433x. Heating and Ventilation	3	.....
M. E. 434x. Industrial Engineering .....	.....	3
M. E. 322x. Dynamics .....	.....	2
C. E. 310x. Testing Laboratory .....	.....	1
E. E. 438x-9x. Elements of Electrical Engineering	3	3
E. E. 412x-3x. Electrical Engineering Laboratory	1	1
Govt. 320x. American Government, National and State	2	.....
*Electives	8	6
	17	16

*Electives to be chosen from the following: B. A. 332x, 333x, 433x, 435x, 436x, Eco. 332x, M. E. 441x, 432x, and Chem. 322x.

CURRICULUM/IN TEXTILES, CHEMISTRY OPTION

Semester Hours
Sem. I Sem. II

For Freshman Year See Page 101

Sophomore Year

Chem 220x. Qualitative Analysis	2	.....
Phys. 231x-2x. Sophomore Physics	3	3
Eng. 233x. Technical Writing	3	.....
Math. 21x. Differential and Integral Calculus	5	.....
Math. 233x. Applications of the Calculus .....	.....	3
Chem. 331x-2x. Quantitative Analysis	3	3
Chem. 242x. Inorganic Chemistry .....	.....	4
Speech 131x. Fundamentals of Speech .....	.....	3
T. E. 221x-2x. Textile Fibers and Yarn Manufacture	2	2
P. E. 213x-4x or M. S. 213x-4x. Physical Education or Military Science	1	1
	19	19

Junior Year

Ag. Eco. 231x-2x. Principles and Theory of Economics	3	3
Chem. 343x-4x. Organic Chemistry	4	4
Chem. 441x-2x. Physical Chemistry	4	4
T. E. 321x-2x. Fabric Design and Weaving	2	2
T. E. 323x-4x. Dyeing and Finishing	2	2
T. E. 331x-2x. Yarn Manufacture	3	3
	18	18

Senior Year

Chem. 443x-4x. Industrial Chemistry	4	4
Chem. 434x. Organic Preparation	3	.....
Chem. 423x. Advanced Qualitative Analysis .....	.....	2
Chem. 422x. Colloid Chemistry	2	.....
Govt. 320x. American Government, National and State .....	.....	2
T. E. 433x-4x. Dyeing and Finishing	3	3
T. E. 421x-2x. Fabric Design, Analysis, and Manufacture	2	2
T. E. 431x-2x. Mill Organization, Knitting and Testing	3	3
	17	16

CURRICULUM IN TEXTILES, ENGINEERING OPTIONSemester Hours
Sem. I Sem. II**For Freshman Year See Page 101****Sophomore Year**

Phys. 231x-2x. Sophomore Physics	3	3
Math. 251x. Differential and Integral Calculus	5	.....
Math. 233x. Applications of the Calculus .....	.....	3
Engr. Dwg. 221x. Machine Drawing	2	.....
Eng. 233x. Technical Writing .....	.....	3
Chem. 220x. Qualitative Analysis	2	.....
Ag. Eco. 231x-2x. Principles and Theory of Economics	3	3
M. E. 313x. Machine Shop .....	.....	1
M. E. 221x. Engineering Problems	2	.....
C. E. 331x. Applied Mechanics—Statics .....	.....	?
T. E. 221x-2x. Textile Fibers and Yarn Manufacture	2	2
P. E. 213x-4x or M. S. 213x-4x. Physical Education or Military Science	1	1
	20	19

Junior Year

Chem. 343x-4x. Organic Chemistry	4	4
C. E. 332x. Applied Mechanics—Kinematics and Kinetics	3	.....
C. E. 333x. Applied Mechanics—Strength of Materials .....	.....	3
E. E. 438x-9x. Electrical Engineering	3	3
E. E. 412x-3x. Electrical Engineering Laboratory	1	1
T. E. 321x-2x. Weaving and Fabric Design	2	2
T. E. 323x-4x. Dyeing and Finishing	2	2
T. E. 331x-2x. Yarn Manufacture	3	3
	18	18

Senior Year

M. E. 334x-5x. Thermodynamics	3	3
M. E. 317x-8x. Thermodynamics Laboratory	1	1
M. E. 434x. Industrial Engineering .....	.....	3
Govt. 320x. American Government, National and State	2	.....
Speech 131x. Fundamentals of Speech	3	.....
M. E. 333x. Kinematics of Machinery .....	.....	3
T. E. 433x-4x. Dyeing and Finishing	3	3
T. E. 421x-2x. Fabric Design, Analysis and Manufacture	2	2
T. E. 431x-2x. Mill Organization, Knitting and Testing	3	3
	17	18

CURRICULUM IN TEXTILES, FABRIC DESIGN OPTION

Semester Hours
Sem. I Sem. II

For Freshman Year See Page 101

Sophomore Year

Phys. 231x-2x. Sophomore Physics	3	3
Arch. 2211x-12x. General History of Architecture	2	2
Eng. 233x. Technical Writing	3	.....
Chem. 220x. Qualitative Analysis .....	.....	2
Speech 131x. Fundamentals of Speech	3	.....
T. E. 221x-2x. Textile Fibers and Yarn Manufacture	2	2
Arch. 121x-2x. Freehand Drawing	2	2
Arch. 125x. Shades and Shadows .....	.....	2
Arch. 123x-4x. Elements of Composition	2	2
P. E. 213x-4x or M. S. 213x-4x. Physical Education or Military Science	1	1
	18	16

Junior Year

Chem. 343x-4x. Organic Chemistry	4	4
Arch. 220x-1x. Principles of Drawing and Painting, and Theory of Design	2	2
Arch. 3210x. Pencil Rendering and Sketching	2	.....
Arch. 3211x. Pen and Ink Rendering .....	.....	2
*Arch. 320x. History of Ornament and Furniture	2	.....
Arch. 326x. Cast Figure Drawing	2	.....
Arch. 327x. Life Drawing .....	.....	2
T. E. 321x-2x. Weaving and Fabric Design	2	2
T. E. 331x-2x. Yarn Manufacture	3	3
T. E. 323x-4x. Dyeing and Finishing	2	2
Govt. 320x. American Government, National and State .....	.....	2
	19	19

Senior Year

Ag. Eco. 231x-2x. Principles and Theory of Economics	3	3
*Arch. 4210x-11x. Decorative Figure Drawing	2	2
*Arch. 426x-7x. Advanced Water Color	2	2
T. E. 433x-4x. Dyeing and Finishing	3	3
T. E. 421x-2x. Fabric Design, Analysis and Manufacture	2	2
T. E. 431x-2x. Mill Organization, Knitting and Testing	3	3
Elective	3	3
	18	18

*To be offered in 1935-36.

DEPARTMENT OF ARCHITECTURE AND ALLIED ARTS

Professor Kleinschmidt. Associate Professor Shelton

Instructor Houghton

The Department of Architecture and Allied Arts offers courses leading to the degrees of Bachelor of Science in Architectural Engineering, Bachelor of Architecture, and Bachelor of Commercial Art.

Architecture is regarded primarily as chief of the fine arts. The allied arts are painting, sculpture, and all lines of craftsmanship. Together they form the foundation of all branches of industry, for not only in buildings, but also in other products the modern world requires beauty of form and color as well as utility. There exists to-day a great demand for skilled men and women in the sale and production of well made, and well designed commodities.

The curriculum in Architecture affords training for students who expect to enter the professional practice of architecture in any of its recognized phases. The student is therefore provided with a basis of both general and technical training which, when supplemented by several years of practical experience in architects' offices, places him in line for the recognition as a practicing architect. Since architecture is considered first among the fine arts, the aesthetic side of the profession is emphasized throughout the course. Design, consequently, with the subjects closely allied to it, is given the most important place in the curriculum. The total requirements for the degree include, therefore, certain minima in design, construction, engineering, and drawing which are necessary to an all-round understanding of architecture and which are required of all students.

The curriculum in Architectural Engineering is designed primarily for the student who desires to specialize in the constructional side of the building profession. As in architecture, a successful practice in this field demands a good general education and wide technical training. 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 groundwork in mathematics, 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. While specializing in the engineering aspects of architecture, the nature of the work of the architectural engineer is such that it is necessary for him to be well grounded in the underlying principles of architectural

design, with a view of practicing in association with one specializing more particularly in design, or of being prepared for intelligent and sympathetic collaboration with architects and builders.

The curriculum in Commercial Art is planned to prepare the student for professional art work in the advertising and illustrating fields. Thorough foundation is given in the aesthetic principles involved in drawing, painting, modeling, art history, and design, and is accompanied by practical problems in the development of advertising layouts, folders, posters, book plates, and illustrations.

The Department of Architecture and Allied Arts, as a chapter, is affiliated with the American Federations of Art, Washington, D. C., and with the College Art Association. Texas Technological College was selected in 1930 by the Committee on Education of the American Institute of Architects and the Carnegie Corporation as a center to promote interest in Art and Architecture in this section of Texas. The Texas Technological College received last year (1933) the gift of a \$5,000 set of art teaching equipment from the Carnegie Corporation. This, with the equipment the department already possesses, will aid materially in teaching those students majoring in Art and Architecture and those from the Department of Textile Engineering majoring in Textile Fabric Design.

Work in various architectural design courses may be carried on simultaneously. The normal time required to complete the design courses is three years. Advancement is based upon design points earned. For graduation, in addition to a passing grade in each semester's work, the student must earn 72 points in grade I, 144 points in grade II, and 192 points in grade III.

- 121x-2x *Freehand Drawing*. Cr. 2 (0-6). Each. Sems. I and II. (Formerly 121-2-3). Medium—charcoal. Instruction by personal criticism. Basic work for entering students. From the more elementary work in line drawing, the problems advance into full light and shade. Studies from fragments of antique architectural ornament. Required of students in Architecture, Architectural Engineering, Commercial Art, and Textile Design.
- 123x-4x. *Elements of Composition*. Cr. 2 (0-6). Occasional lectures. Sems. I and II. Theory of space design; underlying principles of line and area composition. Problems under individual criticism. Required of students in Commercial Art, and Textile Design.
- 125x. *Shades and Shadows*. Cr. 2 (0-6). Sem. I. (Formerly 131). Exercises in conventional shades and shadows of common geometrical solids, solids of revolution, and simple architectural members. Required of those majoring in Architecture, Architectural Engineering, Commercial Art, and Textile Design.

- 131x-2x. *Elements of Architecture*. Cr. 3 (0-9). Sems. I and II. (Formerly 133-4-5). Occasional lectures. Architectural drawing, lettering, and wash rendering in India ink and monotone; elements of architectural design, walls, doors, windows, colonnades, arcades, mouldings, vaults. Required of students in Architecture, Architectural Engineering, and Commercial Art.
- 133x. *Commercial Lettering*. Cr. 3 (0-6). Sem. I and Sem. II. (Formerly Eng. Dwg. 135x). Basic for the study of various styles of pen and brush lettering. The use of different alphabets and letter forms in poster and card design. Occasional conjunctive problems with Arch. 124x, *Elements of Composition*. Outside work required. Required of students in Commercial Art.
- 220x-1x. *Principles of Drawing and Painting, and Theory of Design*. Cr. 2 (0-6). Sems. I and II. (Formerly 2210, 224-5). Occasional lectures. Prerequisite: Arch. 121x-2x. Aims to give an understanding and appreciation of the fundamental principles governing good drawing and painting throughout the ages. Lectures with laboratory work. Actual drawing and use of color. Required of students in Architecture, Architectural Engineering, Commercial Art, and Textile Design.
- 222x-3x. *History of Architecture*. Cr. 2 (2-0). Sems. I and II. (Formerly 227-8-9). Technical history of architecture from the dawn of civilization to the end of the Greek period; the Roman period; Early Christian and Byzantine periods; the Romanesque and Gothic. For students in Architecture, and Architectural Engineering.
- 228x-9x. *Clay Modeling*. Cr. 2 (0-6). Sems. I and II. Prerequisite: Arch. 121x-2x. The making of clay models, plaster casts of simple decorative fragments, and anatomical forms; construction of relief maps. For students in Commercial Art.
- 2210x. *Perspective*. Cr. 2 (0-6). Sem. II. (Formerly 132 or 126x). Prerequisite: Engr. Dwg. 222x. Theory of Perspective as applied to common geometrical solids and to problems from architectural practice. Required of students in Architecture, Architectural Engineering, and Commercial Art.
- 2211x-12x. *General Course in the History of Architecture*. Cr. 2 (2-0). Sems. I and II. (Formerly 330-1-2 or 328x-9x). Development of art of building to create a cultural background. The temples, cathedrals, palaces, and other characteristic monuments of the ancient, mediaeval, Renaissance, and modern styles illustrated by means of lectures and slides, photographs, and collateral reading. For students in Commercial Art, and Textile Design .

- 231x-2x. *Architectural Design, Grade I*. Cr. 3 (0-9). Sems. I and II. (Formerly 234-5, 246). Prerequisite: Arch. 131x-2x. Long and short problems under individual criticism dealing in general with the elements of plan and elevation. Sketch problems dealing with composition. Required of students in Architecture, and Architectural Engineering.
- 321x. *History of Early Civilizations and Arts*. Cr. 2 (3-0). Sem. I. Prerequisite: Arch. 222x-3x or 2211x-12x. Illustrated lectures dealing with the origins of art and architecture in early civilizations. Library research in anthropology and archaeology as related to the origins of art and architecture. Required of students in Architecture, and Commercial Art.
- 322x-3x. *History of Architecture*. Cr. 2 (2-0). Sems. I and II. (Formerly 321-2-3). Prerequisite: Arch. 222x-3x. The architecture of the Italian, French, Spanish, English, and German Renaissance, and that of modern times. Technical. Required of students in Architecture, and Architectural Engineering. Given in alternate years; given in 1934-35.
- 324x. *History of Sculpture*. Cr. 2 (3-0). Sem. II. Prerequisite: Arch. 321x. Illustrated lectures on the development of sculpture from the Egyptian to the present day. Library research. Required of students in Architecture, and Commercial Art.
- 325x. *Building Sanitation*. Cr. 2 (2-0). Sem. II. (Formerly 326). Prerequisite: Junior standing. Location and orientation of buildings; lighting; ventilation, water supply, plumbing, sewage and refuse disposal. Required of students in architectural engineering.
- 326x. *Cast Figure Drawing*. Cr. 2 (0-6). Sem. I and Sem. II. (Formerly 327). Prerequisite: Arch. 121x-2x. Medium—charcoal. Instruction by personal criticism. The work advances by steps from the drawing of cast fragments to the complete figure in full value—thereby training the student for the more difficult problems of life classes. Required of students in Architecture, Commercial Art, and Textile Design.
- 327x. *Life Drawing I*. Cr. 2 (0-6). Sem. I and Sem. II. (Formerly 328-9). Prerequisite: Arch. 326x. Drawing from the living model in various media. Instruction by personal criticism. Admission to courses in life drawing limited to those students who have satisfactorily completed the preceding courses in free-hand drawing or their equivalent. Required of students in Architecture, Commercial Art, and Textile Design.
- 3211x. *Pen and Ink Rendering*. Cr. 2 (0-6). Sem. II. (Formerly 2313-4-5 or 225x). Prerequisite: Arch. 3210x. Pen and

- ink technique, studies from plaster casts, still life, and nature. Required of students in Commercial Art, and Textile Design.
- 3214x-15x. *Building Construction*. Cr. 2 (0-6). Sems. I and II. (Formerly 237-8 or 226x-7x). Prerequisite: Engr. Dwg. 132x or 134x. Preparation of working drawings and specifications for suburban houses; drawing complete details for buildings, heating, plumbing, and structural problems. Required of students in Architecture, and Architectural Engineering.
- 361x-2x. *Architectural Design, Grade II*. Cr. 6 (0-18). Sems. I and II. (Formerly 361-2,373). Prerequisite: Arch. 231x-2x. Long and short problems, under individual criticism, dealing with simple architectural composition. Sketch problems dealing with large compositions or decorative detail. For students in Architecture. Architectural Engineers may elect this course in their senior year.
- 420x. *Professional Practice*. Cr. 2 (2-0). Sem. I. (Formerly 411-2). Prerequisite: Senior standing. Office organization, ethics, professional relations. For students in Architecture, Architectural Engineering, and Commercial Art. Given in alternate years; not given in 1934-35.
- 421x. *Estimating and Specification Writing*. Cr. 2 (2-0). Sem. II. Prerequisite: Senior standing. Principles of quantity survey; cost analysis. The writing of specifications. For students in Architecture, and Architectural Engineering. Given in alternate years; not given in 1934-35.
- 422x. *Building Materials and Construction*. Cr. 2 (2-0). Sem. I. (Formerly 236). Prerequisite: Arch. 3214x-15x. Introduction to the properties and uses of materials of construction. Occasional visits to buildings under construction. Required of students in Architecture, and Architectural Engineering.
- 481x-2x. *Architectural Design, Grade III*. Cr. 8 (0-24). Sems. I and II. (Formerly 491-2-3). Prerequisite: Arch. 361x-2x. Long, short, and sketch problems under personal criticism dealing with the more complex kinds of architectural compositions, particularly with subjects involving special character and a decorative and imaginative interest. For students in Architecture.

DEPARTMENT OF CHEMICAL ENGINEERING

Professors Goodwin, Craig.

Associate Professor Schneider. Assistant Professor Slagle.

Instructor Marshall

Chemical engineering is recognized today as a distinct branch of engineering. An industrial chemical process in reality consists

of a series of unit processes, the proper sequence and coordination of which constitute an engineering science.

The Chemical Engineering curriculum is based upon the belief that a student should secure a thorough, fundamental training in both chemistry and engineering. Hence, the "practical" courses are largely omitted. Emphasis, insofar as possible, is placed on both class and laboratory work. In addition to the professional courses, the curriculum emphasizes the importance of a proper training in English, economics, and speech, and prepares the student for more advanced work by the inclusion of German. It is the purpose of this course to train men so that they may be ready to develop into executives, superintendents, and managers of plants in the field of chemical industry. This curriculum leads to the degree of Bachelor of Science in Chemical Engineering.

The freshman year is the uniform one required of all Engineering students. The descriptions of the required courses in Chemistry are given under the *Department of Chemistry and Chemical Engineering*.

DEPARTMENT OF CIVIL ENGINEERING

Professors Murdough, Adams.

Assistant Professor McRee. Instructor Parkhill.

The curriculum of study outlined under the requirements for the degree of Bachelor of Science in Civil Engineering is designed to prepare the student to enter any of the following fields of endeavor.

1. Highway engineering—the location, construction, and maintenance of highways and pavements.

2. Structural engineering—the design and construction of fixed structures and their foundations.

3. Hydraulic and sanitary engineering—the design and construction of dams, hydraulic power plants, water supply plants, and sewage disposal systems.

4. Surveying and geodesy—the measurement and platting of portions of the earth's surface and objects on it.

Besides the special fields indicated, the Civil Engineering curriculum is broad enough to permit a graduate to enter into many other of those fields which are open to the technically trained man. Aeronautical structural design may be cited for example.

The curriculum in Civil Engineering requires much work in English, economics, and the sciences. It affords a liberal education as well as a technical training.

In addition to the courses required by those electing to follow the Civil Engineering curriculum, the Department offers courses which are taken by all of the students in the Engineering Division.

A brief description of the courses offered by the Department of Civil Engineering follows.

- 220x. *Elementary Surveying*. Cr. 2 (0-6). Sem. I. (Formerly 230). Prerequisite: Math. 131x. The use and care of transit, tape, and level.
- 231x-2x. *Plane Surveying*. Cr. 3 (2-3). Sems. I and II. (Formerly 241-2-3). Prerequisite: Math 131x. The use and adjustment of surveying instruments; plane surveys with transit and tape; profiles and cross sections; computations from field notes; the mathematics of curves as applied to railroads and highways, with field practice; earthworks, mass diagrams.
- 310x. *Testing Laboratory*. Cr. 1 (0-3). Sem. II. (Formerly 312, 313). Prerequisite: Registration in C. E. 333x or consent of instructor. Standard tests and reports on steel, iron, and wood specimens; the physical properties of cement and concrete.
- 311x. *Highway Laboratory*. Cr. 1 (0-3). Sem. II. (Formerly 314). Prerequisite: C. E. 335x. Standard tests of road building materials.
- 320x. *Structures*. Cr. 2 (1-3). Sem. I. (Formerly 315-6). Prerequisite: C. E. 331x. Graphic statics, stresses in framed structures by graphical methods, stress analysis of portals, design of wood roof truss.
- 321x. *Highway Engineering*. Cr. 2 (2-0). Sem. II. (Formerly 337). Prerequisite: C. E. 335x. History and development of transportation, highway laws, traffic control and regulations.
- 330x. *Structures*. Cr. 3 (3-0). Sem. II. (Formerly 338-9 or 331x). Prerequisite: C. E. 320x. Moment and shear curves; influence lines, stresses in framed structures; moving load systems; influence tables; design of plate girder.
- 331x. *Applied Mechanics—Statics*. Cr. 3 (3-0). Sem. II. (Formerly 331 or 233x). Prerequisite: Math 251x or registration in Math 336x. Resultants of coplanar and non-coplanar force systems; equilibrium of force systems, friction, centroids, moments of inertia.
- 332x. *Applied Mechanics—Kinematics and Kinetics*. Cr. 3 (3-0). Sems. I and II. (Formerly 332). Prerequisite: C. E. 331x. Motion of the particle and of rigid bodies; kinetics of translation, rotation, and plane motion; work, energy.

- 333x. *Applied Mechanics—Strength of Materials*. Cr. 3 (3-0). Sem. II. (Formerly 333). Prerequisite: C. E. 331x. Stresses and strains in elastic bodies subjected to tension, compression, and shear; bending and torsion; deflection of homogeneous beams; resilience; column theory; combined stresses.
- 334x. *Surveying*. Cr. 3 (1-6). Sem. II. (Formerly 334). Prerequisite: C. E. 231x. Topographic mapping, stadia, and plane table; astronomical determination of azimuth, latitude, time.
- 335x. *Highway Engineering*. Cr. 3 (3-0). Sem. I. (Formerly 335). Prerequisite: C. E. 331x. Fundamentals of highway location, design, construction, maintenance.
- 410x. *Hydraulics Laboratory*. Cr. 1 (0-3). Sem. II. (Formerly 412). Prerequisite: C. E. 420x. Laboratory study of principles taught in C. E. 420x.
- 420x. *Hydraulics*. Cr. 2 (2-0). Sem. I. (Formerly 439). Prerequisite: C. E. 331x. Mechanics of water at rest and in motion.
- 421x. *Engineering Administration*. Cr. 2 (2-0). Sem. I. (Formerly 4313). Prerequisite: Senior standing or approval of instructor. Contracts, specifications, and engineering relations.
- 422x. *Highway Administration and Finance*. Cr. 2 (2-0). Sem. II. (Formerly 4311). Prerequisite: C. E. 321x. History and development of systems of highway administration; principles of highway finance.
- 423x. *Highway Design*. Cr. 2 (0-6). Sem. II. (Formerly 4312). Prerequisite: C. E. 321x. Design and estimate applied to various highway projects and problems.
- 424x-5x. *Materials*. Cr. 2 (1-3). Sems. I and II. (Formerly 430). Prerequisite: C. E. 333x. Class and laboratory. The properties of the materials of engineering.
- 426x. *Water Supply and Sewage Disposal*. Cr. 2 (2-0). Sem. II. Prerequisite: Bact. 321x. A brief survey course of waterworks, sewerage design, and construction.
- 431x-2x. *Reinforced Concrete*. Cr. 3 (3-0). Sems. I and II. (Formerly 431-2-3). Prerequisite: C. E. 333x. Study and application of the theory of reinforced concrete design.
- 433x. *Structures*. Cr. 3 (0-9). Sem. I. (Formerly 442). Prerequisite: C. E. 330x, 333x. Design and detail of steel structures.

- 434x. *Structures*. Cr. 3 (3-0). Sem. II. (Formerly 434). Prerequisite: C. E. 433x. Brief presentation of the theory of statically indeterminate structures.

Courses in this department which may be taken for graduate credit are: C. E. 331x, 332x, 333x, 410x, 420x, 421x, 422x, 423x, 424x-5x, 426x, 431x-2x, 433x, 434x.

ENGINEERING ORIENTATION

- 111x. *Engineering Orientation*. Cr. 1 (2-0). Sem. I and Sem. II. (Formerly 101-2-3). Relationship of student to college; development of correct study habits; study and preparation of time and expense budgets; lectures by heads of engineering departments; moving pictures showing phases of work in the various engineering departments. Required of all freshman Engineering students during their first semester. One hour of preparation a week required.

DEPARTMENT OF ELECTRICAL ENGINEERING

Professor Bullen. Associate Professor Helwig.

Electrical engineering is one of the newest branches of engineering. This branch has developed so rapidly, and the applications of electricity have become so broad, that many subdivisions in electrical engineering now exist, offering opportunity and vocations in a great variety of engineering endeavors.

Graduates in electrical engineering find employment in such fields as manufacturing, public utilities, business, contracting, sales, research, teaching, design, construction, application, transportation, illumination, and communication.

Specialization in any of these fields usually follows graduation, and no attempt is made in the course in Electrical Engineering to concentrate the training of the student in any specialized field within this branch of engineering. Rather the purpose of the course is to give a basic and comprehensive training in those fundamental principles of electricity required for a thorough understanding of electrical circuits, apparatus, and machinery. The student is also given thorough courses in the fundamentals of chemical, civil, and mechanical engineering in addition to the work in electrical engineering. The curriculum also includes a thorough course dealing with the principles of economics.

Special emphasis is placed upon the student's ability to reason logically, apply mathematics, and speak and write clear, concise English. 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.

In Electrical Engineering, theory is taught in the classroom, then applied in the laboratory by practical tests.

- 230x. *Principles of Electrical Engineering*. Cr. 3 (3-0). Sem. II. (Formerly 231). Prerequisite: Phys. 231x, Math. 251x. Recitations and problems on the fundamental principles of the electric, magnetic, and dielectric circuits.
- 231x-2x. *Elements of Electrical Engineering*. Cr. 3 (2-3). Sems. I and II. Prerequisite: Math. 131x, Phys. 133x-4x. Recitations, problems, and laboratory work dealing with electric circuits and machinery. For the two-year certificate course in Industrial Arts.
- 321x-2x. *Electrical Engineering Laboratory*. Cr. 2 (0-6). Sems. I and II. (Formerly 321-2-3). Prerequisite: Registration in E. E. 331x.
- 331x-2x. *Principles of Electrical Engineering*. Cr. 3 (3-0). Sems. I and II. (Formerly 331-2-3). Prerequisite: E. E. 230x. Recitations and problems dealing with the fundamental theory, operating characteristics, and applications of direct current apparatus and machinery. Alternating current circuits studied in 332x.
- 335x. *Wiring and Illumination*. Cr. 3 (3-0). Sem. II. Prerequisite: Math 132x, six semester hours of Physics. Standard methods of wiring circuits; the general theory and modern methods of illumination. For Architectural Engineering students. Given in alternate years; given in 1934-35.
- 410x. *Current Electrical Engineering*. Cr. 1 (1-0). Sem. I. (Formerly 410). Prerequisite: Senior standing. Class discussion of current developments in the field of electrical engineering.
- 411x. *Electrical Engineering Seminar*. Cr. 1 (1-0). Sem. I. (Formerly 411). Prerequisite: Senior standing. The study, by the use of available engineering literature, of an assigned engineering problem. Preparation and presentation of seminar paper covering problem studied. Offered when demand or nature of problem justifies.
- 412x-3x. *Electrical Engineering Laboratory*. Cr. 1 (0-3). Sems. I and II. (Formerly 311-2 or 311x-2x; supercedes 324-5, 326). Prerequisite: Registration in E. E. 426x or 438x. For Civil, Chemical, Mechanical, and Textile Engineering students.
- 421x-2x. *Electrical Engineering Laboratory*. Cr. 2 (0-6). Sems. I and II. (Formerly 421-2-3). Prerequisite: Registration in E. E. 431x.
- 423x-4x. *Electrical Applications*. Cr. 2 (2-0). Sems. I and II. (Formerly 434-5). Prerequisite: Registration in E. E. 431x.

Problems and considerations involved in the utilization of electrical energy.

- 425x. *Thesis*. Cr. 2 (0-6). Sem. II. (Formerly 424-5). Prerequisite: E. E. 411x, or equivalent preparation to make investigation of a problem of special interest to the student. Preparation of thesis. Open only to students having satisfactory scholastic records. Offered when demand or nature of problem justifies.
- 426x-7x. *Elements of Electrical Engineering*. Cr. 2 (2-0). Sems. I and II. (Formerly 337-8 or 323x-4x). Prerequisite: Phys. 231x, Math 251x. Recitations and problems dealing with the elementary principles of direct and alternating current circuits and machinery. For Civil and Chemical Engineering students.
- 431x-2x. *Alternating Current Machinery*. Cr. 3 (3-0). Sems. I and II. (Formerly 431-2-3.) Prerequisite: E. E. 332x. Recitations and problems on the construction, theory of operation, and characteristics of the principal types of alternating current machinery.
- 433x. *Transmission*. Cr. 3 (3-0). Sem. I. (Formerly 436). Prerequisite: Registration in E. E. 431x. Theory and problems involved in the transmission of electrical energy.
- 434x. *Communication*. Cr. 3 (2-3). Sem. II. (Formerly 437). Prerequisite: E. E. 433x. Fundamental principles of modern methods of communication.
- 435x. *Illumination*. Cr. 3 (3-0). Sem. I. (Formerly 438). Prerequisite: Senior standing. Lectures and discussions dealing with production, measurement, and utilization of light. Offered only when demand justifies.
- 436x. *Electron Tubes*. Cr. 3 (3-0). Sem. I. (Formerly 439). Prerequisite: Senior standing. Theory and general applications of electron tubes. Offered only when demand justifies.
- 437x. *Radio Engineering*. Cr. 3 (3-0). Sem. II. (Formerly 4310). Prerequisite: Senior standing. Fundamentals of short wave radio communication. Offered only when demand justifies.
- 438x-9x. *Elements of Electrical Engineering*. Cr. 3 (3-0). Sems. I and II. (Formerly 334-5-6 or 333x-4x). Prerequisite: Phys. 231x, Math. 251x. Recitations and problems dealing with the principles of direct and alternating current circuits and machinery. For Mechanical, and Textile Engineering students.

Courses in this department which may be taken for graduate credit are 411x, 421x-2x, 423x-4x, 425x, 431x-2x, 433x, 434x, 436x, 437x.

DEPARTMENT OF GEOLOGICAL ENGINEERING

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

Geological engineering is a comparatively new branch of engineering which has developed in recent years in response to a need for men trained in both engineering and geology for work in economic geology, especially for work in the petroleum industry. Instruction in the department combines thorough training in fundamental engineering subjects with training in the fundamental principles of geology and its several specialized branches, such as paleontology, petrology, and structural geology. The training in engineering is very similar to the instruction given students in Civil Engineering.

The work of the department is intended to fit students to engage in either the engineering or the scientific phase of economic geology and to give them a basis for future specialization in whatever field circumstances may demand.

DEPARTMENT OF INDUSTRIAL ENGINEERING,
ENGINEERING DRAWING, AND
INDUSTRIAL EDUCATION

Professor St. Clair. Assistant Professor Street.
Instructor Perryman.

The objective of this department is to provide instruction which will prepare the student to enter the industrial field as an industrial engineer; fit him to operate a small manufacturing business of his own; prepare him to teach industrial arts; or enter the industrial field with a semi-technical training.

INDUSTRIAL ENGINEERING

As a distinct branch of engineering, industrial engineering is among the later branches in which the leading colleges of the country offer a complete curriculum.

The ground covered in the Department of Industrial Engineering is intended to give the student the basic training necessary to enable him to enter the industrial world with a broad foundation on which to specialize in any industry he may choose.

Aside from the subjects relating directly to industrial engineering, it is required of the student that he secure a fundamental training in English, economics, and business administration. It is emphasized that the successful industrial engineer is much more than a purely technical man, that he must be familiar with the various de-

partments of industry, and that he has an obligation to society in the field of social, political, and other problems.

The curriculum is planned so that the student obtains instruction in the basic branches of engineering, namely; mechanical, electrical, civil and chemical—in these particular departments.

Special effort is made to furnish an insight into the field of industrial engineering by pictures of the machinery in industrial plants in actual operation; talks by men in industrial work; visits to industrial plants; and a discussion of papers on subjects relating to industrial engineering.

Much time and effort are spent to acquaint the student with proper methods of attack on problems coming within the field of industrial engineering. He is taught to choose the most desirable location for a particular plant; determine the most desirable type of building; determine upon the most economical and practical arrangement of machinery and the most desirable type of machinery; and provide the most healthful working conditions, safety protection, and the most desirable personnel of a particular plant.

- 316x. *Personnel Relations*. Cr. 1 (1-0). Sem. I. Prerequisite: Junior standing or sophomore standing in two-year certificate course in Industrial Arts. Relation of capital and labor; relation of various departments of an industrial organization; relation of foreman, workmen, planning division. Offered annually beginning 1935-36.
- 324x-5x. *Production Planning and Control*. Cr. 2 (1-3). Sems. I and II. Prerequisite: M. E. 221x; junior standing. Standard methods of planning, scheduling, and controlling processes in modern industrial plants. Machine capacity analysis. Typical production problems.
- 331x. *Time and Motion Study and Safety Engineering*. Cr. 3 (2-3). Sem. II. Prerequisite: M. E. 312x, Engr. Dwg. 221x; registration in Ind. Engr. 324x-5x. Methods of taking and analyzing time and motion studies; setting of standard times; calculation of wage incentives; analysis of studies of representative processes. Objects, origin, growth, agencies, organization of safety work in industry; accident causes and responsibility; safety codes; safety standards; safety guards; workmen's compensation. Offered annually beginning 1935-36.
- 421x-2x. *Chemical Plant Design*. Cr. 2 (0-6). Sems. I and II. (Formerly Engr. Dwg. 421-2 or 421x-2x). Prerequisite: Engr. Dwg. 133x. Concurrent with or following Chem. 443x-4x. Chemical engineering equipment and its arrangement in various types of chemical plants. Drawings, calculations, and sketches

used to solve assigned problems in design of machinery and apparatus, selection and specification of equipment, and layout of chemical plants.

423x. *Relation of Engineer to Society and Study of Published Statistics.* Cr. 2 (1-3). Sem. I. Prerequisite: Senior standing in Engineering. The young engineer's responsibility to society; those elements of society in which his training and position prepare him to participate. Available means from which to judge trend of business as indicated by government reports, patents, and direct information from talks by industrialists and visits to industrial plants. Offered annually beginning 1936-37.

431x. *Purchasing and Industrial Engineering Problems.* Cr. 3 (3-0). Sem. II. Prerequisite: Senior standing in Engineering. General methods of purchasing; specifications; quotations; relation of price and quality; source of supply. Problems involving operating efficiencies and minimum production costs. Maintenance of industrial plants and equipment. Offered annually beginning 1936-37.

432x-3x. *Industrial Plant Design.* Cr. 3 (1-6). Sems. I and II. Prerequisite: Senior standing in Industrial Engineering. In the form of a seminar. A complete industrial plant will be designed, covering location, capacity, material routing, type of buildings, machinery, shipping, sanitary and safety working conditions. Required of all applicants for the degree of Bachelor of Science in Industrial Engineering. Offered annually beginning 1936-37.

ENGINEERING DRAWING

The courses offered in Engineering Drawing are fundamental for all courses in Engineering; also certain courses are given which are in the nature of service courses for the other departments and divisions.

These courses aim to prepare the student to use intelligently and skillfully the standard instruments and equipment of a draftsman and a designer. They, furthermore, aim to give him sufficient experience in the execution of drawings so that he can capably fill a position of draftsman upon graduation.

Approved drawing equipment is required for all courses.

132x-3x. *Engineering Drawing.* Cr. 3 (1-6). Each, Sems. I and II. (Formerly 135-6-7). The essentials of drafting, including freehand sketching, the use of instruments, lettering, engineering geometry, orthographic projection, sections, intersections, developments, isometric and oblique drawing, and elementary working drawings.

- 134x. *Graphic Arts*. Cr. 3 (0-6). Sem. I. The use of instruments, geometry in design, orthographic projections, lettering, mechanical pictorial methods, the meaning of "scale", elementary application of graphics to applied art. Outside work required.
- 211x. *Technical Sketching and Lettering*. Cr. 1 (0-3). Sem. II. (Formerly 211). Prerequisite: Engr. Dwg. 132x or the equivalent. Orthographics, pictorial sketching, and engineering lettering.
- 221x. *Machine Drawing*. Cr. 2 (0-6). Sem. I. (Formerly 232). Prerequisite: Engr. Dwg. 133x or the equivalent. The application of the graphic language to engineering purposes, engineering sketching, machine fastenings, theory of dimensioning, conventional practice, machine details, graphic design, detail and assembly drawings.
- 222x. *Descriptive Geometry*. Cr. 2 (1-3). Sem. II. (Formerly 231). Prerequisite: Engr. Dwg. 132x or the equivalent. Theory of engineering drawing which provides training in exact thinking. Point, line, and plane problems, tangent planes, intersections and developments, single and double curved surfaces, and warped surfaces.
- 223x. *Agricultural Drawing*. Cr. 2 (0-6). Sem. II. (Formerly 124). Not open to freshmen. Orthographic projection, lettering, graphic charts, freehand sketching, and the reading of drawings related to agriculture and agricultural engineering.
- 321x. *Mechanical Drawing for Teachers*. Cr. 2 (1-3). Sem. I. Prerequisite: Engr. Dwg. 221x, 222x. Aims and methods of teaching mechanical drawing in high schools stressed in lectures. Emphasis in laboratories on those points which are essential in making a neat mechanical drawing: dimensioning, lettering, sectional views, arrangements. Required of all candidates for degree in Industrial Education.
- 322x. *Advanced Machine Drawing*. Cr. 2 (0-6). Sem. I. Prerequisite: Engr. Dwg. 221x and 222x. Training in making drawings of more complicated machines than is given in the freshman and sophomore years. Practice in making mechanical drawings of a quality expected of a draftsman by industrial concerns.
- 331x. *The Art of Lettering*. Cr. 3 (0-6). Sem. I. (Formerly 333). Prerequisite: Arch. 133x. The art of lettering, including history and development of the alphabet; the technique of lettering and application in design. Outside work required. Given in alternate years; given in 1934-35.

INDUSTRIAL EDUCATION

(Four-year course)

The curriculum offered in Industrial Education, four-year course, leading to the degree of Bachelor of Science, is so arranged that a graduate of this Department has complied with all the requirements of the law of the State of Texas to receive a Special Permanent Certificate and a High School Four-Year Certificate. Upon completion of the courses the graduate has at least 24 hours in a major (in this case, Industrial Education) and at least three minors (namely, Mathematics, Physics, and English) with the possibility of so choosing his minor elective courses that he may have at least one more minor—namely, Shop.

A graduate in this course is in a position, after teaching three years in a Texas high school, to receive a High School Permanent Certificate.

There are many instances when it is necessary for a teacher in an accredited high school to teach more than one course. According to a recent ruling any teacher must have a major or minor in the subjects he is to teach. This curriculum furnishes the opportunity for a student to comply with this enactment.

Furthermore, this curriculum is such that upon completion the graduate has a background fitting him for the position of an employee of an industrial concern. It is not intended that this shall take the place of a course in Industrial Engineering, which is offered in this Department, but is for those students who prefer a training between that of the Engineer and the graduate in Arts and Sciences.

- 311x. *History and Principles of Vocational Education*. Cr. 1 (1-0). Sem. I. Prerequisite: Junior standing in Industrial Education or permission of Head of Department. Background of the history of the vocational movement, not only in this country but elsewhere. The principles underlying this subject, with particular reference to those which apply to the movement in this country. Present practice in leading schools.
- 331x. *Educational and Vocational Guidance*. Cr. 3 (2-3). Sem. II. Prerequisite: Junior standing in Industrial Education or permission of Head of Department. Training students to become guides and counsellors in engineering and industry. Fields of guidance: social, physical, vocational, avocational; importance and need of guidance; method and plans of guidance. Offered annually beginning 1935-36.
- 423x-4x. *Industrial Arts Course-Making and Planning*. Cr. 2 (1-3). Sems. I and II. Prerequisite: Ind. Ed. 311x; senior standing in Industrial Education. Instruction and practice in

outlining courses in Industrial Arts. To assist those students who anticipate becoming supervisors or teachers of industrial arts in public schools.

425x-6x. *Seminar*. Cr. 2 (1-3). Sems. I and II. Prerequisite: Senior standing in four-year Industrial Education course. In the nature of a thesis on a subject approved by the department head. Research work and planning. Required of all candidates for a degree in Industrial Education. Offered annually beginning 1936-37.

431x. *Industrial Arts Practice Teaching*. Cr. 3 (0-9). Sem. II. Prerequisite: Senior standing in four-year Industrial Education course. Supervised instruction in local schools or in Texas Technological College. Required of all candidates for a degree in Industrial Education. Offered annually beginning 1936-37.

INDUSTRIAL ARTS

(Two-Year Certificate Course)

The Two-year Certificate Course in Industrial Arts is intended, primarily, for two classes of students.

First, those who wish to pursue their studies beyond the high school but who, for financial or other reasons, cannot take a full four-year course.

Second, those who after entering college find they are unable to complete the four-year curricula but are interested to secure sufficient educational and shop training to enable them to conduct a small business of their own, or to enter the employ in an assistant's capacity of some one already operating such a business.

This course is designed to give the student a background of shop experience, at the same time to give him sufficient instruction in business administration, economics, and mathematics so that he can intelligently fill a station in life along the line of his preference and aptitude.

Inasmuch as the length of time outlined in which to complete the course is short, and the work required is heavy, students desiring to enroll will find their time fully occupied.

Upon satisfactory completion of this course the College will issue a certificate, signed by the President, indicating that the course has been completed in a creditable manner and in a manner which warrants the recognition of the College authorities. It is to be clearly understood, however, that this certificate is not on the same plane as a diploma, nor does it comply with any of the State school laws governing teacher's certificates.

Courses in this department which may be taken for graduate credit are: Ind. Engr. 421x-2x, 423x; Engr. Dwg. 321x.

DEPARTMENT OF MECHANICAL ENGINEERING

Professor Godeke. Associate Professor Doughtie. Assistant
Professor Hardgrave. Instructors Lewis and Clapp.

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 the foundation courses in economics. The student is given 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, the 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 solutions are indicated by the applications of the fundamental laws of physics, chemistry, and mathematics.

At present no specialized courses such as aeronautics are given. However, the fundamental subjects, upon which such specialized courses are built, are given in such a way that a student may take the regular Mechanical Engineering course for three years and finish his specialized course in some other school giving such work. However, it would probably be much better to take the full mechanical engineering course and later take the specialized work as graduate work in some other school.

For the benefit of those who do wish to enter the design, shop, or power generating divisions, a course in Mechanical Engineering, Administrative Option, is offered. The student who elects this option, secures a knowledge of the fundamentals of the Mechanical Engineering course, but omits or abbreviates some of the more technical subjects and studies additional work in Business Administration and Economics.

New courses are offered in shop work for those who wish to specialize in this branch.

- 121x. *General Wood Work*. Cr. 2 (0-6). Sem. I and Sem. II.
Care and operations of wood working lathes, jointer, saws, surfacer, and shaper; use of hand tools; projects in wood work embodying the various joints; paneling; glue; and various finishings.

- 211x. *Sheet Metal Work*. Cr. 1 (0-3). Sem. II. Prerequisite: Registration in Engr. Dwg. 133x. The fundamental operations of sheet metal work; developing patterns and laying out work; hand and machine operations; rolling, forming, crimping, wiring, seaming, grooving, cutting, turning, beading, riveting; soldering of brass, copper, tin, galvanized iron, and steel.
- 221x. *Engineering Problems*. Cr. 2 (1-2). Sem. I. (Formerly 221). Prerequisite: Phys. 134x. Application of physics and mathematics to the solution of elementary engineering problems. Methods of attack, analysis, and presentation of problems; slide rule, graphs, and curve drawing.
- 222x. *Welding Practice*. Cr. 2 (0-6). Sem. I and Sem. II. Welding practice; electric arc, resistance, oxy-acetylene, and thermit welding; application of welding in construction of machines and structural steel; repairing of machine parts; care and operation of oxy-acetylene and arc welding equipment; butt, lap, and tee welding; welding methods; pipe cutting and welding; welding of various metals.
- 241x. *Mechanism*. Cr. 4 (2-6). Sem. II. (Formerly 222). Prerequisite: Engr. Dwg. 133x, M. E. 221x. Laws which govern the motion of the various parts of machinery. Graphic analyses made of the various mechanisms, linkages, cams, gears, belts, and pulleys. For Mechanical Engineering students.
- 311x. *Pattern Shop*. Cr. 1 (0-3). Sem. I. (Formerly 225). Prerequisite: Engr. Dwg. 133x. Methods and principles of pattern making; various woods, tools, and machines used. Shrinkage, glue joints, core boxes. Various constructions such as one piece patterns, laminated, segmental, and stave construction, end, and cross lap, dado, and rabbet joints. Individual instruction in the use of machine and hand tools.
- 312x. *Foundry Practice*. Cr. 1 (0-3). Sem. I and Sem. II. (Formerly 213). Prerequisite: Registration in M. E. 311x. Foundry materials and products; bench, floor, and pit molding; mixing, melting, and pouring of ferrous and non-ferrous metals; small foundry lay-out; making and testing of dry sand cores; green sand testing; microscopic examination and physical testing of non-ferrous metals; various methods of cleaning castings.
- 313x. *Machine Shop*. Cr. 1 (0-3). Sem. I. (Formerly 216 and 311). Prerequisite: Engr. Dwg. 133x. The various types of lathes, planers, millers, cutting tools, drills, reamers, abrasives, grinding machines, turret lathes, gear cutting machines, automatic screw machines, gauges, and inspection as applied to work shop. Bench work, such as chipping, filing, tapping, reaming, and fitting.

- 314x. *Machine Shop*. Cr. 1 (0-3). Sem. II. (Formerly 313 or 315). Prerequisite: M. E. 313x. A continuation of M. E. 313x. Standardization; routing of materials; die casting; press metals and presses; cutting fluids. Each student given advanced operations on machines, such as taper turning, internal and external threading, grinding, shaping, milling machine calculations, and operations.
- 315x. *Heat Treating of Steel*. Cr. 1 (0-3). Sem. II. (Formerly 214). Prerequisite: Chem. 220x; registration in M. E. 337x recommended. Laboratory work in the heat treating of plain carbon and alloy steels. Carburizing, cyaniding, nitriding, hardening, tempering, normalizing, annealing; various methods of forging, welding, and rolling steel and wrought iron; destruction tests and microscopic examination of heat-treated steels; heat-treating furnaces and materials used; thermit welding and its application.
- 316x. *Tool Engineering*. Cr. 1 (0-3). Sem. II. Prerequisite: Registration in M. E. 314x. Tools as applied to mass production and interchangeable manufacture; tolerances and allowances; tooling methods in different industries; various design of jigs and fixtures for planers, millers, drives, lathes, and grinders; tooling up machines for production. Each student assigned a special project in line of a machine part.
- 317x-8x. *Heat Engineering Laboratory*. Cr. 1 (0-3). Sems. I and II. (Formerly 318-9 and 328-9). Prerequisite: Registration in M. E. 334x. Mechanical measurements, heat transmissions, and heat transfer equipment. Tests of power plant equipment, internal combustion engines, pumps, blowers, and air equipment. For Chemical, Electrical, and Textile Engineering students.
- 319x. *Foundry Practice*. Cr. 1 (0-3). Sem. II. Prerequisite: M. E. 312x. A continuation of M. E. 312x with more advanced problems; foundry layout for quantity production; molding machines and match plates; cupola design; calculations for mixing, charging, and operating a cupola; melting and casting cast iron; microscopic examination and physical testing of cast iron, malleable iron, and cast steel; cost of operation.
- 321x. *Thermodynamics*. Cr. 2 (2-0). Sem. II. Continuation of M. E. 331x. For description see M. E. 331x.
- 322x. *Dynamics of Machinery*. Cr. 2 (2-0). Sem. II. (Formerly 426). Prerequisite: M. E. 241x, C. E. 332x. Forces acting in various types of machines such as flywheels, governors, turbine rotors, revolving discs; also balancing of machines. Applied kinetics.

- 323-4x. *Farm Shop Work*. Cr. 2 (0-6). Sem. I and II. Sharpening, care and use of tools for general wood work, plumbing, electrical, and concrete work. Identification of various kinds of hardware, plumbing and electrical fittings. Soldering, cold work, forging, concrete, plumbing, glazing, painting, harness and machine repairs, rope splicing, belt work. For those wishing to teach vocational agriculture. Time distributed at discretion of instructor.
- 331x-321x. *Thermodynamics*. Cr. 3, 2 (3, 2-0). Sems. I and II. Continuous courses. (Formerly 332-3). Prerequisite: Phys. 134x, Math. 251x, M. E. 221x. Thermodynamic principles governing the action of steam engines and turbines, internal combustion engines, air compressors, and refrigeration machines. Properties of air, steam, ammonia, gaseous mixtures, and other heat media. Problems. For Mechanical Engineering students.
- 332x. *Mechanical Measurements and Thermodynamics Laboratory*. Cr. 3 (0-6). Sem. I. (Formerly 321-2). Prerequisite: Registration in M. E. 331x and 341x. Correlation of the parts of various kinds of heat engines and of methods and instruments used in mechanical engineering measurements. Methods of calibrating various instruments. Applications of properties of steam, flow of liquids, heat transmission. Simple tests of power plant equipment. Outside work required. For Mechanical Engineering students.
- 333x. *Kinematics of Machinery*. Cr. 3 (2-3). Sem. II. (Formerly 427). Prerequisite: Engr. Dwg. 133x, M. E. 221x. A general course in kinematics and dynamics for non-Mechanical Engineering students. Motions of fundamental parts of machinery, such as linkwork, cams, gears, and flexible connections. Static and inertia force analyses and balancing. Graphic treatment used when possible. For Textile and Electrical Engineering students.
- 334x. *Thermodynamics and Heat Engines*. Cr. 3 (3-0). Sem. I. (Formerly 334, 331). Prerequisite: Phys. 134x, Math. 251x. The theory of heat as applied to heat power machines. Properties of air, steam, and other heat media; gas laws, calorimeters, steam engines, valve gears, governors, turbines, condensers, and air machinery. For Architectural, Chemical, Civil, Electrical, and Textile Engineering students.
- 335x. *Thermodynamics and Heat Engines*. Cr. 3 (3-0). Sem. II. (Formerly 335-6). Continuation of M. E. 334x. Prerequisite: M. E. 334x. Combustion and fuels, boilers and boiler auxiliaries, internal combustion engines and auxiliaries, air compressors. Supplemented by power plant layout problems. For Textile, Chemical, and Electrical Engineering students.

- 336x. *Thermodynamics and Heat Engines*. Cr. 3 (2-3). Sem. II. (Formerly 338-9). Continuation of M. E. 334x. Principles of combustion and fuels, boilers and boiler auxiliaries, internal combustion engines and auxiliaries, air compressors. Supplemented by 3 hours of power laboratory work. For Civil Engineering students.
- 337x. *Metallurgy*. Cr. 3 (3-0). Sem. II. (Formerly 439). Prerequisite: Phys. 232x, Chem. 220x. The manufacture of iron, steel, and non-ferrous metals. Extraction of metals from their ores. Blast furnaces, open hearth, Bessemer, and crucible methods. Refining. Ferrous and non-ferrous alloys and their properties. Metallography and effect of heat treating.
- 341x. *Steam Power Plant Engineering*. Cr. 4 (4-0). Sem. I. (Formerly 431-2). Prerequisite: Registration in M. E. 331x. Equipment of a modern steam power plant including boilers, economizers, superheaters, air preheaters, pumps, feed water heaters, draft producing equipment, coal handling machinery, boiler room accessories, engines, turbines, condensers, piping layouts, combustion of fuels, heat balance calculations.
- 421x-2x. *Advanced Laboratory Work*. Cr. 2 (0-6). Sems. I and II. Advanced problems in machine shop, foundry, pattern making, welding, heat-treating, power laboratory, heating and ventilation, internal combustion engines, refrigeration, and machine design. Given only when sufficient demand exists and only upon the approval of the instructor in charge of the desired work.
- 431x. *Power Plant Laboratory*. Cr. 3 (0-6). Sem. I. (Formerly 421-2). Prerequisite: M. E. 322x. Continuation of tests on steam power plant equipment; turbines, fans, pumps. Tests on internal combustion engines using various fuels. Tests of refrigeration equipment. The analysis of data and their proper presentation in the form of an engineering report. Outside work required. For Mechanical Engineering students.
- 432x. *Power Plant Design*. Cr. 3 (1-6). Sem. II. Prerequisite: M. E. 341x, or 335x. The design of a modern power plant to meet a given situation. Load curves. Selection of location. Choice of equipment for most economical service. Layout of plant for best operating conditions. Power costs.
- 433x. *Heating and Ventilation*. Cr. 3 (3-0). Sem. I. (Formerly 3317). Prerequisite: M. E. 321x. Different systems of heating and ventilation of offices, hotels, and industrial plants. Air conditioning equipment.
- 434x. *Industrial Engineering*. Cr. 3 (3-0). Sem. II. (Formerly 434). Prerequisite: Eco. 232x. The modern industrial system and the application of scientific knowledge to the management.

of industry, standardization, time studies, personnel relations. Plant layout, planning, scheduling, and inspection. Safety engineering. Engineering contracts.

435x. *Mechanical Equipment of Buildings*. Cr. 3 (2-3). Sem. II. (Formerly 435-6). Prerequisite: M. E. 334x. The theory and application of the principles of heating and ventilation. Heat losses from buildings; various heating and ventilation systems; air conditioning. Fire prevention, vacuum cleaning, and miscellaneous equipment. For Architectural Engineering students. Given in alternate years; not given in 1934-35.

436x-7x. *Machine Design*. Cr. 3 (0-9). Sems. I and II. (Formerly 4321-2-3). Prerequisite: M. E. 322x, C. E. 333x, Engr. Dwg. 221x. First part consists of lectures; latter part consists entirely of laboratory work. Division of time at discretion of instructor. Fundamental principles involved in design of machinery. Drafting room work consists of the solution of numerous problems and the complete design of one or more machines.

438x. *Internal Combustion Engines*. Cr. 3 (3-0). Sem. I. (Formerly 4317-8). Prerequisite: M. E. 321x and 341x, or M. E. 335x, or M. E. 336x. Mechanical and thermodynamic problems involved in the application of the internal combustion engine to automobiles, trucks, airplanes, portable and stationary power plants. Application of the Otto and Diesel 2 and 4 stroke cycles, using constant and variable specific heats of gases. Auxiliary equipment.

439x. *Air Conditioning*. Cr. 3 (3-0). Sem. II. Prerequisite: M. E. 331x or 334x. Fundamental principles underlying air conditioning and practical application of air conditioning to homes, restaurants, theatres, office buildings, factories, passenger cars, and manufacturing processes such as are used in the textile and food industries.

441x. *Industrial Plant Design*. Cr. 4 (2-6). Sem. II. Prerequisite: Registration in M. E. 434x. Design of a commercial plant. Location, selection of equipment, routing, materials handling, storage, shipping, and proper working conditions. Given on sufficient demand.

Courses in this department which may be taken for graduate credit are: M. E. 321x, 421x-2x, 432x, 433x, 438x, 441x.

DEPARTMENT OF TEXTILE ENGINEERING

Professor Brandt. Assistant Professor Heard.

The Department of Textile Engineering offers thorough training to students who intend entering the textile industry or the technical phases of allied fields, such as dry cleaning, laundering, or fabric purchasing for department stores. With its modern equipment and well arranged classrooms and laboratories, ample opportunities are afforded for both theoretical and practical instruction.

Three optional branches of study are offered the student for specialized work. The entire textile field itself is too broad to be covered in a single course. Therefore the division into engineering, chemistry, and design is made. The student may exercise his choice and concentrate his study in the field in which he has special aptitude. The course of freshman study is common to all textile students, thereby allowing ample time before final choice of option is made.

The textile instruction consists of lectures, calculations, tests, investigations, and experimentation with the various machines; practical operation of the machines by students; the principles underlying fabric structure; and the elements of woven design. The structure and cost of fabrics are ascertained by work in cloth analysis.

The carding and spinning areas of the textile plant and laboratories have complete equipment required to convert the fiber into the finished yarn. All of the machines are the standard mill sizes and include vertical opener, picker, cards, both roller and revolving flat, comb, drawing frames, roving frames, and spinning frames, both regular and long draft.

The weaving area of the plant is equipped with 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. Wide latitude is given the student in producing fabrics to illustrate different color combinations and weave effects of his own design.

The principles of latch needle knitting applicable to the knitting of hose, half-hose, and mufflers, and the construction and operation of circular and flat latch needle machines are studied.

In the dyeing laboratory instruction, which precedes practical dyeing on the machines, students study the action of the alkalies and acids on the various textile fabrics, and the application of the various classes of dyes to silk, wool, cotton, and rayon. Full details of the processes employed in bleaching cotton yarn and cloth are followed, including water purification by chemical and mechanical means, with special reference to bleaching and finishing.

A testing laboratory is equipped with apparatus for testing the products in the various stages of manufacture into yarns and fabrics. Cotton, laps, slivers, rovings, yarns, and fabrics are tested to determine the moisture content. The effect of different speeds, settings, twists, temperatures, and humidities on the appearance, elasticity, and strength of yarns and fabrics.

- 221x. *Textile Fibers*. Cr. 2 (0-6). Sem. I. (Formerly 228). Physical and chemical properties of fibers for textile purposes. Production, classing, grading, stapling, chemical, and physical properties, and preparation for processing.
- 222x. *Yarn Manufacture*. Cr. 2. (0-6). Sem. II. (Formerly 227-9). Machines used in fabric manufacture. Work done in each of the areas of carding, spinning, weaving, and dyeing.
- 231x. *Textile Fibers and Fabrics*. Cr. 3 (3-0). Sem. I. (Formerly 131-2 or 131x). Fiber study, yarns, fabric design, and weaving. Fabrics, selection, and maintenance. Selection and proper use of textile material. Open to all students.
- 232x. *Fabric Dyeing and Maintenance*. Cr. 3 (2-3). Sem. II. (Formerly 133 or 132x). Methods of dyeing, bleaching, and finishing of textiles. Color harmony, mixing, and color matching. Modern methods of laundering, dry cleaning, and stain removal. Testing for fastness of yarns and fabrics.
- 233x. *Hand Weaving from Fiber to Fabric*. Cr. 3 (1-6). Summer only. A study of fibers, preparation, dyeing, carding, spinning, warping, weaving and finishing hand woven woollens.
- 311x. *Cotton Grading and Stapling*. Cr. 1 (0-3). Sem. II. Laboratory practice in judging the grade and staple of cotton. Utility, value, and commercial practices.
- 321x-2x. *Fabric Design and Weaving*. Cr. 2 (1-3). Sems. I and II. (Formerly 324-5-6). Lectures and practical work in the structure and manufacture of the simpler types of fabrics. Plain and dobby looms with special regard to the mechanical principles involved.
- 323x-4x. *Dyeing and Finishing*. Cr. 2 (2-0). Sems. I and II. (Formerly 327-8-9). Prerequisite: Registration in Chem. 343x-4x. The chemistry and principles of the bleaching, dyeing, and finishing of fabrics.
- 325x. *Cotton Grading and Stapling*. Cr. 2 (1-3). S. Laboratory practice in judging the grade and staple of cotton. Utility, value, commercial practices.

- 331x-2x. *Yarn Manufacture*. Cr. 3 (2-3). Sems. I and II. (Formerly 331-2-3). Prerequisite: T. E. 221x-2x. The construction and practical operation of the machines used in the manufacture of cotton and woolen yarns.
- 421x-2x. *Fabric Design, Analysis, and Manufacture*. Cr. 2 (1-3). Sems. I and II. (Formerly 437-8-9). Prerequisite: T. E. 321x-2x. Advanced work in design and analysis of jacquard and fancy dress materials. A continuation of the study of the mechanics and operation of the various looms.
- 431x-2x. *Mill Organization, Knitting, and Testing*. Cr. 3 (1-6). Sems. I and II. (Formerly 444-5-6). Prerequisite: T. E. 331x-2x. Mill machine balance and plant layout. Knitting on circular and warp machines. Actual experience in the testing laboratory by solving problems of a commercial nature.
- 433x-4x. *Dyeing and Finishing*. Cr. 3 (0-9). Sems. I and II. (Formerly 434-5-6). Prerequisite: T. E. 323x-4x. Practical application of the principles taught in T. E. 323x-4x.

DIVISION OF HOME ECONOMICS

MARGARET W. WEEKS, DEAN

PURPOSE

The Division of Home Economics of Texas Technological College offers a college education leading to the degree of Bachelor of Science. The aim of the Division is to prepare young women for the important position of home making and for the vocations which grow out of home making activities. The curricula are arranged to meet the needs of those students who desire a good foundation in the subjects relating to the social, scientific, artistic, and economic problems of the home; for those who wish to prepare themselves for teaching home economics in the high schools of the State; for those who wish to become home demonstration agents; and for those who wish to enter commercial fields.

The Division of Home Economics also aims to give instruction to students registered in other divisions of the College who may elect home economics courses as a part of a liberal education. Students in the Division of Arts and Sciences may use twenty-four semester hours of Home Economics as partial fulfillment of the requirements for the Bachelor of Arts degree.

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 designed 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 students may put into practice the knowledge gained in the class rooms; to serve as a laboratory for work in home furnishings; and to be used as a center for social activities of the Division of Home Economics.

FIELD FOR GRADUATES

There are many positions, aside from home making, open to the women trained in home economics among which may be mentioned the following:

Testers in textile laboratories for department stores, personal shoppers in large department stores; designers in factories and dress-makers' 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 Texas Technological College. The Division of Home Economics is prepared to give advice and to help secure for its students such practical experience as will lead to the vocations listed above.

Home Economics instruction at Texas Technological College has been approved by the State Board of Vocational Education. Graduates of the Division of Home Economics who satisfactorily complete the work of the teacher training major are eligible to receive, in addition to the Bachelor of Science 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.

TEACHERS' CERTIFICATE

Teachers' certificates valid in Texas, and in other states as well, may be secured by students registered in the Division of Home Economics, provided a sufficient number of courses in education are included in the student's program. The courses in education may count as elective subjects. For complete information regarding teachers' certificates, see *Department of Education and Psychology*.

SPECIAL REQUIREMENTS FOR "THE VOCATIONAL CERTIFICATE OF APPROVAL"

Candidates for this certificate, in addition to completing the requirements for the Bachelor of Science 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 home making. A statement giving details regarding this experience must be filed in the Dean's office at the beginning of the senior year.

REGULATIONS

Regulations governing students in the Division of Home Economics are essentially the same as those applying to students in other divisions of the College. These regulations may be found under *Regulations for Students*.

REQUIREMENTS FOR GRADUATION

Specialized courses of study are offered in Textiles and Clothing, Foods and Nutrition, Home Demonstration, and Home Economics Education, as well as a course in General Home Economics.

All Home Economics students are required to pursue the same course of study throughout the freshman year. This is done to allow the student to become familiar with the various branches of home economics so that she may have a better basis for choice of the curriculum she wishes to pursue. The choice of major is made in the sophomore year.

Students who wish to obtain at the close of the freshman year a certificate to teach, may substitute a year of education for any of the prescribed subjects, with the exception of English. The subject which is omitted must be made up in the sophomore year.

Students who are found to be notably deficient in the fundamentals of oral or written English will be required to remove the deficiency before they are graduated from the Institution.

ORIENTATION

Freshman students are required to attend certain scheduled lectures during their freshman year. This course is known as Home Economics Orientation 111x, and is a part of the requirement for graduation.

HOME ECONOMICS SEMINAR

All senior students are required to attend the home economics seminar which is scheduled during the second semester of the senior year. This course is known as Home Economics Education 411x.

DEGREE

The degree of Bachelor of Science in Home Economics will be conferred upon students who satisfactorily complete one of the prescribed curricula in the Division of Home Economics as outlined on the following pages.

CURRICULA FOR HOME ECONOMICS STUDENTS

CURRICULUM IN CLOTHING AND TEXTILES

		Semester Hours	
		Sem. I	Sem. II
Freshman Year			
Eng. 131-2x.	Freshman Composition	3	3
Chem. 131x-2x.	General Chemistry	3	3
Cloth. 131x.	Elementary Textiles	3	.....
Cloth. 132x.	Clothing Construction .....	.....	3
Foods 131x-2x.	Food Preparation and Service	3	3
A Arts 131x.	Elementary Design	3	.....
Math. 135x.	Mathematics for Home Economics Students .....	.....	3
Physical Education	.....	1	1
H. E. Or. 111x.	Orientation for Home Economics Students ..	1	.....
		17	16
Sophomore Year			
Eng. 231x-2x	Introduction to Literature	3	3
Zool. 235x-6x.	The Human Body	3	3
A. Arts 231x.	Costume Design	3	.....
Eco. 231x-2x.	Principles of Economics	.....	.....
or			
Ag. Eco. 231x-2x.	Economics, Principles and Theory	3	3
Cloth. 231x.	Pattern Designing	3	.....
Cloth. 232x.	Dressmaking .....	.....	3
Hist. 131x-2x.	History of Civilization	3	3
Physical Education	.....	1	1
		19	16
Junior Year			
Anthro. 331x-2x.	Anthropology	3	3
Bact. 231x.	Bacteriology	.....	.....
or			
Chem. 341x.	Organic Chemistry .....	.....	3 or 4
French 131x-2x.	A Beginning Course in French	3	3
Govt. 320x.	American Government, National and State .....	.....	2
A. Arts 331x.	Interior Decoration	3	.....
A. Arts elective	.....	.....	3
Cloth. 431x.	Textile Economics	3	.....
Cloth. 422x.	Home Furnishings .....	.....	2
Elective	.....	3	.....
		15	16 or 17
Senior Year			
Advanced Chem., Textile Chem., or Textile Engineering	.....	3	.....
H. Mgt. 421x.	Child Development	2	.....
H. Mgt. 422x.	Family Relationships .....	.....	2
Cloth. 321x.	Children's Clothing	2	.....
Cloth. 322x.	Weaving Crafts .....	.....	2
Cloth. 331x.	Tailoring	3	.....
Cloth. 433x.	His. of Costume and Advanced Dress Design ..	.....	3
Cloth. 432.	Advanced Textiles .....	.....	3
H. E. Ed. 411x.	Home Economics Seminar .....	.....	1
Elective	.....	3	.....
*Arts and Sciences elective	.....	3	3
		16	14

*Same subject must be continued throughout the year and must be approved by the student's adviser.

CURRICULUM IN FOODS AND NUTRITION

		Semester Hours	
		Sem. I	Sem. II
Freshman Year			
Eng. 131-2x.	Freshman Composition	3	3
Chem. 131x-2x.	General Chemistry	3	3
Cloth. 131x.	Elementary Textiles	3	.....
Cloth. 132x.	Clothing Construction	.....	3
Foods 131x-2x.	Food Preparation and Service	3	3
A Arts 131x.	Elementary Design	3	.....
Math. 135x.	Mathematics for Home Economics Students	.....	3
H. E. Or. 111x.	Orientation for Home Economics Students	1	.....
Physical Education		1	1
		17	16
Sophomore Year			
Eng. 231x-2x	Introduction to Literature	3	3
Chem. 220x.	Qualitative Analysis	2	.....
Zool. 235x-6x.	The Human Body	3	3
Foods 231x.	Dietetics	3	.....
Foods 232x.	Meal Planning and Table Service	.....	3
Govt. 320x.	American Government, National and State	.....	2
H. Mgt. 322x.	Home Nursing	.....	2
*Arts and Sciences elective		3	3
Physical Education		1	1
		15	17
Junior Year			
Chem. 341x.	Organic Chemistry	4	.....
Chem. 342x.	Physiological Chemistry	.....	4
Anthropology or Sociology elective		3	.....
Eco. 231x.	Principles of Economics	.....	.....
or			
Ag. Eco. 233x.	Economics, Principle and Theory	.....	3
Psy. 231x.	Educational Psychology	3	.....
Ed. 234x.	Principles of Secondary Education	.....	3
Foods 332x.	Food Purchasing	3	.....
Foods and Nutrition elective		.....	3
H. Mgt. 331x.	Household Administration	3	.....
**H. Mgt. 432x.	Residence Home Management House	.....	3
Cloth. 431x.	Textile Economics	3	.....
		19	16
Senior Year			
Bact. 231x.	Bacteriology	.....	3
Foods 432x.	Nutrition	3	.....
Foods 421x.	Nutrition in Disease	.....	2
Foods and Nutrition elective		3	3
H. Mgt. 421x.	Child Development	2	.....
H. Mgt. 422x.	Family Relationships	.....	2
A. Arts 331x.	Interior Decoration	3	.....
Agriculture elective		2	.....
H. E. Ed. 411x.	Home Economics Seminar	.....	1
*Arts and Sciences elective		3	3
		16	14

*Same subject must be continued throughout the year and must be approved by the student's adviser.

**Or elective approved by the Dean.

CURRICULUM IN HOME ECONOMICS EDUCATION

		Semester Hours	
		Sem. I	Sem. II
Freshman Year			
Eng. 131-2x.	Freshman Composition	3	3
Chem. 131x-2x.	General Chemistry	3	3
Cloth. 131x.	Elementary Textiles	3	.....
Cloth. 132x.	Clothing Construction .....	.....	3
Foods 131x-2x.	Food Preparation and Service	3	3
A. Arts 131x.	Elementary Design	3	.....
Math. 135x.	Mathematics for Home Economics Students .....	.....	3
H. E. Or. 111x.	Orientation for Home Economics Students ..	1	.....
Physical Education	.....	1	1
		17	16
Sophomore Year			
Eng. 231x-2x	Introduction to Literature	3	3
Zool. 235x-6x.	The Human Body	3	3
Foods 231x.	Dietetics	3	.....
Foods 232x.	Meal Planning and Table Service .....	.....	3
A. Arts 231x.	Costume Design	3	.....
Cloth. 231x.	Pattern Designing	3	.....
Cloth. 232x.	Dressmaking .....	.....	3
Govt. 320x.	American Government, National and State .....	.....	2
H. Mgt. 322x.	Home Nursing .....	.....	2
Physical Education	.....	1	1
		16	17
Junior Year			
Chem. 341x.	Organic Chemistry	4	.....
Bact. 231x.	Bacteriology .....	.....	3
Anthropology or Sociology elective	.....	3	.....
Eco. 231x.	Principles of Economics	.....	.....
or	.....	.....	.....
Ag. Eco. 233x.	Economics, Principle and Theory .....	.....	3
Psy. 231x.	Educational Psychology	3	.....
Ed. 234x.	Principles of Secondary Education .....	.....	3
H. Mgt. 331x.	Household Administration	3	.....
A. Arts 331x.	Interior Decoration .....	.....	3
Foods 332x.	Food Purchasing .....	.....	3
Cloth. 431x.	Textile Economics	3	.....
Cloth. 422x.	Home Furnishing .....	.....	2
		16	17
Senior Year			
H. E. Ed. 411x.	Home Economics Seminar .....	.....	1
H. E. Ed. 431x.	Methods in Home Economics	3	.....
H. E. Ed. 441x.	Student Teaching .....	.....	4
Cloth. 321x.	Children's Clothing	2	.....
Cloth. 421x.	Demonstration Clothing .....	.....	2
H. Mgt. 421x.	Child Development	2	.....
H. Mgt. 422x.	Family Relationships .....	.....	2
Foods 432x.	Nutrition	3	.....
H. Mgt. 432x.	Residence in Home Management House .....	.....	3
*Arts and Sciences elective	.....	3	3
Education elective	.....	3	.....
Foods elective	.....	2	.....
Agriculture elective	.....	.....	2
		18	17

*Same subject must be continued throughout the year and must be approved by the student's adviser.

CURRICULUM IN GENERAL HOME ECONOMICS

	Semester Hours	
	Sem. I	Sem. II
Freshman Year		
Eng. 131-2x. Freshman Composition	3	3
Chem. 131x-2x. General Chemistry	3	?
Cloth. 131x. Elementary Textiles	3	.....
Cloth. 132x. Clothing Construction .....	.....	3
Foods 131x-2x. Food Preparation and Service	3	3
A. Arts 131x. Elementary Design	3	.....
Math. 135x. Mathematics for Home Economics Students .....	.....	3
H. E. Or. 111x. Orientation for Home Economics Students	1	.....
Physical Education	1	1
	17	16
Sophomore Year		
Eng. 231x-2x. Introduction to Literature	3	3
Zool. 235x-6x. The Human Body	3	3
Foods 232x. Dietetics	3	.....
Foods 232x. Meal Planning and Table Service .....	.....	3
Cloth. 231x. Pattern Designing	3	.....
Cloth. 232x. Dressmaking .....	.....	3
A. Arts 231x. Costume Design	3	.....
Govt. 320x. American Government, National and State .....	.....	2
H. Mgt. 322x. Home Nursing .....	.....	2
Physical Education	1	1
	16	17
Junior Year		
Chem. 341x. Organic Chemistry	4	.....
Bact. 231x. Bacteriology .....	.....	3
Eco. 231x. Principles of Economics .....	.....	.....
or		
Ag. Eco. 233x. Economics, Principles and Theory .....	.....	3
Psy. 231x. Educational Psychology .....	.....	.....
or		
Psy. 230x. Introduction to Psychology	3	.....
Hort. 322x. Landscape Appreciation .....	.....	2
Psy. 331x. Child Psychology .....	.....	3
H. Mgt. 331x. Household Administration	3	.....
H. Mgt. 432x. Residence in Home Management House .....	.....	3
Cloth. 431x. Textile Economics	3	.....
Cloth 422x. Home Furnishings .....	.....	2
Foods 332x. Food Purchasing	3	.....
	16	16
Senior Year		
Anthro. 231x-2x. Anthropology	3	3
Cloth. 321x. Children's Clothing	2	.....
Clothing elective .....	.....	2
H. Mgt. 421x. Child Development	2	.....
H. Mgt. 422x. Family Relationships .....	.....	2
Foods and Nutrition elective .....	.....	3
A. Arts 331x. Interior Decoration	3	.....
H. E. Ed. 411x. Home Economics Seminar .....	.....	1
Elective	3	2
*Arts and Science elective	3	3
	16	16

*Same subject must be continued throughout the year and must be approved by the student's adviser.

CURRICULUM IN HOME DEMONSTRATION

		Semester Hours	
		Sem. I	Sem. II
Freshman Year			
Eng. 131-2x.	Freshman Composition	3	3
Chem. 131x-2x.	General Chemistry	3	3
Cloth. 131x.	Elementary Textiles	3	
Cloth. 132x.	Clothing Construction		3
Foods 131x-2x.	Food Preparation and Service	3	3
A. Arts 131x.	Elementary Design	3	
Math. 135x.	Mathematics for Home Economics Students		3
H. E. Or. 111x.	Orientation for Home Economics Students	1	
Physical Education	.....	1	1
		17	16
Sophomore Year			
Eng. 231x-2x.	Introduction to Literature	3	3
Zool. 235x-6x.	The Human Body	3	3
Govt. 320x.	American Government, National and State		2
Foods 231x.	Dietetics	3	
Foods 232x.	Meal Planning and Table Service		3
A. Arts 231x.	Costume Design	3	
Cloth. 231x.	Pattern Designing	3	
Cloth. 232x.	Dressmaking		3
H. Mgt. 321x.	Home Nursing		2
Physical Education	.....	1	1
		16	17
Junior Year			
Chem. 341x.	Organic Chemistry	4	
Bact. 231x.	Bacteriology		3
Anthropology or Sociology	elective	3	
Eco. 231x.	Principles of Economics or		
Ag. Eco. 233x.	Economics, Principle and Theory		3
Psy. 231x.	Educational Psychology	3	
Ed. 234x.	Principles of Secondary Education		3
H. Mgt. 331x.	Household Administration	3	
H. Mgt. 432x.	Residence in Home Management House		3
Foods 332x.	Food Purchasing	3	
Cloth. 431x.	Textile Economics	3	
Cloth. 422x.	Home Furnishings		2
Hort. 322x.	Landscape Appreciation		2
		19	16
Senior Year			
A. Arts 331x.	Interior Decoration	3	
H. Mgt. 421x.	Child Development	2	
H. Mgt. 422x.	Family Relationships		2
Cloth. 321x.	Children's Clothing	2	
D. M. 330x.	Domestic Dairying	3	
Hort. 324x.	Home Gardening		2
Foods 322x.	Demonstration Foods		2
Cloth. 421x.	Demonstration Clothing		2
Foods 321x.	Food Preservation	2	
A. H. 221x.	Principles of Poultry Production		2
Cloth. 322x.	Weaving Crafts		2
Rural Soc. 421x.	Methods of Research and Extension	2	
H. E. Ed. 411x.	Home Economics Seminar		1
*Arts and Sciences elective	.....	3	3
		17	16

*Same subject must be continued throughout the year and must be approved by the student's adviser.

DEPARTMENT OF APPLIED ARTS

Associate Professor Tilden. Instructor Hawley.

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 divisions who wish an initial course in art appreciation, elementary design, costume design, and interior decoration.

- 131x. *Elementary Design*. Cr. 3 (1-6). Sem. I and Sem. II. (Formerly 131, 1-2 of 132). Design principles as applied to line, form, and color in theory and practice; intelligent standards for good taste in selection and arrangement, simple creative designs and elementary work in lettering and block print.
- 132x. *Textile Design*. Cr. 3 (1-6). Sem. II. (Formerly 132, $\frac{1}{2}$ of 133). Prerequisite: A. Arts 131x. The application of students' design and color combinations in batik, tie dye, block print, and stitchery. Appreciation of color and decorative design.
- 231x. *Costume Design*. Cr. 3 (1-6). Sem. I and Sem. II. (Formerly 231). Prerequisite: A. Arts 131x. Application of design principles to costume planning and selection; analysis of personality and figure differences and the choice of specifically becoming line and color; simple costume sketches required.
- 331x. *Interior Decoration*. Cr. 3 (1-6). Sem. I. (Formerly 431). Prerequisite: A. Arts 131x. An introductory survey of our domestic architecture; house plans with emphasis on utility, convenience, and charm of arrangement; application of design principles to house furnishing selection and arrangement; wall coverings, rugs, furniture, curtains, pictures and accessories.
- 334x. *Craft Design*. Cr. 3 (1-6). Sem. I. Prerequisite: A. Arts 131x. The application of students' design in leather and wood.
- 335x. *Craft Design*. Cr. 3 (1-6). Sem. II. Prerequisite: A. Arts 131x. Appreciation and technique in designs for metal and jewelry.
- 337x. *Art Appreciation*. Cr. 3 (3-0). Sem. II. An appreciation of line, form, and color, not only in the fine arts, but also in costume and home furnishing, providing a background for more intelligent judgment and appreciation.

DEPARTMENT OF CLOTHING AND TEXTILES

Professor Erwin. Assistant Professor Buster.

Instructor Looney.

The Department of Clothing and Textiles has for its objectives: training of future home makers in the best known practices of providing garments and materials for the family and home; translating these practices into principles both for the homemaker and the teacher of homemaking; and providing sufficient background so that by the addition of personal initiative and practical experience a student may qualify for related commercial, professional, and research positions.

Students majoring in this department must consult the head of the department before registering as to selection of advanced courses and electives. Students expecting to teach in non-vocational schools should elect education courses. Students wishing to teach in vocational high schools should not major in this department, but in the Department of Home Economics Education. Students desiring to prepare for research work will elect chemistry, physics, textile engineering, and related courses, as substitutes for design and clothing construction courses, upon the recommendation of the head of the department.

131x. *Elementary Textiles*. Cr. 3 (1-6). Sem. I and Sem. II. (Formerly 131, 1-2 of 133). Identification of fabrics, weaves, fibers, finishes, and quality of fabrics. Practical problems in testing, laundering, and wearing qualities, texture and color combinations. Use and care of fabrics for clothing and home furnishings; the effect of heat and chemicals on fabrics.

132x. *Elementary Clothing Construction*. Cr. 3 (1-6). Sem. I and Sem. II. (Formerly 132, 1-2 of 133). Practical problems in the selection of harmonious wardrobes based on art principles considering occasions, needs and cost. Principles of using commercial patterns. Construction of tailored and afternoon dresses of cotton or linen.

231x. *Pattern Designing*. Cr. 3 (1-6). Sem. I and Sem. II. (Formerly 232). Prerequisite: Cloth. 131x, 132x; A. Arts 231x (or parallel). Exercises in fitting garments for various difficulties; pattern study. Freehand designing of flat patterns from a corrected foundation pattern.

232x. *Dressmaking*. Cr. 3 (1-6). Sem. I and Sem. II. (Formerly 231). Prerequisite: Cloth. 131x, 132x; A. Arts 231x. Essential principles of dressmaking. Skill in handling silk and wool through construction of a dress and a coat.

- 321x. *Children's Clothing*. Cr. 2 (1-3). Sem. I. (Formerly 332). Prerequisite: Cloth. 131x, 132x, 231x or 232x; A. Arts 131x, 231x. Selection, care, designing and construction of children's clothing. Wardrobe budgets based on various income levels.
- 322x. *Weaving Crafts*. Cr. 2 (1-3). Sem. II. (Formerly 135). Prerequisite or parallel: Cloth 131x; A. Arts 131x. Hand weaving and rug hooking. Preparing warp, threading loom, dyeing yarn and other materials.
- 331x. *Tailoring*. Cr. 3 (1-6). Sem. I. (Formerly 433). Prerequisite: Clothing 232x, 321x; advanced standing. Technique of constructing tailored garments; pressing and cleaning. Time and cost studies. Several garments made for customers.
- 421x. *Demonstration Clothing*. Cr. 2 (1-3). Sem. II. (Formerly 434). Prerequisite: H. E. Ed. 431x; Cloth. 231x, 232x, 321x, 431x; senior standing. Methods used in teaching clothing. Demonstrations and projects. Preparation of illustrative materials, scales, and exhibits.
- 422x. *Home Furnishings*. Cr. 2 (1-3). Sem. II. (Formerly 436). Prerequisite: Cloth. 331x; A. Arts 331x (or parallel). Purchase, use, care, and construction of household linens, curtains, rugs, upholstery, and slip covers. Especially for home demonstration agents and homemakers.
- 431x. *Textile Economics*. Cr. 3 (2-3). Sem. I. (Formerly 331). Prerequisite: Cloth. 231x or 232x; Eco. 231x. Development of a consumer's code through the coordination of principles of economics, science, hygiene, aesthetics, social psychology, practical values and cost for the wiser consumption of textiles.
- 432x. *Advanced Textiles*. Cr. 3 (2-3)). Sem. II. Prerequisite: Cloth. 131x. Readings, reports, conferences, and individual laboratory work in a survey of research already accomplished or still needed in the solution of consumer's problems in textiles. Given in alternate years; not given in 1934-35.
- 433x. *History of Costume and Advanced Dress Design*. Cr. 3 (1-6). Sem. II. (Formerly 432, 333, 435). Prerequisite: Advanced standing, history, applied arts, and clothing courses satisfactory to instructor. Draping materials into dress designs and planning decorative features based on the contribution of different countries and civilizations to the development of dress. Given in alternate years; given in 1934-35.

The following advanced undergraduate courses may be used as minors or electives for a master's degree, provided an additional special problem is done in each course: Cloth. 431x, Cloth. 432x.

DEPARTMENT OF FOODS AND NUTRITION

Professors McCrery, Weeks. Associate Professor Twyford.
Instructor Hodges.

The Department of Foods and Nutrition aims to give a well rounded training in food selection, purchasing, and preparation. It has as its primary objective the education of the college woman for scientific administration of the family food supply.

The several courses offered in this department are designed to help prepare the student for the positions of: (1) homemaker, (2) teacher of homemaking, (3) hospital dietitian, (4) administrator in institutional cookery, and (5) commercial demonstrator.

Students expecting to teach in a high school should choose among their electives Home Economics Education. Students expecting to teach home economics in a vocational high school should not major in this department, but in Home Economics Education.

131x-2x. *Elementary Food Preparation and Serving*. Cr. 3 (1-6). Each, Sems. I and II. (Formerly 131-2-3). The Fundamental principles of cookery in relation to all types of foods. The planning and serving of simple home meals.

133x. *Food Selection and Elementary Nutrition*. Cr. 3 (3-0). Sem. I. (Formerly 134). Elementary principles of nutrition and the relation of food selection to health. Open to men and women students.

231x. *Dietetics*. Cr. 3 (2-3). Sem. I and Sem. II. (Formerly 232-3). Prerequisite: Foods 131x-2x. Chem. 131x-2x. Prerequisite or parallel: Zool. 235x-6x. The essentials of an adequate diet. The food requirements of persons of different ages, and the nutritive values of common food materials. Experimental work with laboratory animals.

232x. *Meal Planning and Table Service*. Cr. 3 (1-6). Sem. I and Sem. II. (Formerly 231). Prerequisite or parallel: Foods 231x. The planning, cooking and serving of suppers, luncheons, dinners, buffet meals, and afternoon teas. Food combinations in relation to the nutritive and the aesthetic aspects of menu planning. Computation of costs of meals, and compilation of food budgets. Economies of food purchasing.

233x. *Food Selection and Serving*. Cr. 3 (1-6). Sem. II. (Formerly 234). Prerequisite: Foods 134x. Food preparation in meal combinations. The economics of food selection and purchase. Menu planning from the nutritive and the aesthetic standpoints. Especial emphasis upon the serving of meals. Open to men and women students.

- 321x. *Food Preservation*. Cr. 2 (0-6). S. (Formerly 321). Prerequisite: Sophomore standing. Adaptation of newer methods of food preservation to modern science. Intensive practice in canning, preserving and pickling meats, fruits, vegetables. Especially for home demonstration agents.
- 322x. *Demonstration Cookery*. Cr. 2 (1-3). Sem. II. (Formerly 334). Procedure in demonstrating before audiences of different sorts. Especially for prospective teachers and home demonstration agents.
- 331x. *Large Quantity Cookery*. Cr. 3 (1-6). Sem. II. (Formerly 331). Prerequisite: Foods 232x. Administration, equipment, and accounting for various types of institutions, with special emphasis on the school lunch room—actual administrative experience given in the home economics tea room.
- 332x. *Food Purchasing*. Cr. 3 (2-3). Sem. I. (Formerly 332). Prerequisite: Foods 232x. Food purchasing, with emphasis on the relation of the producer to the consumer, on food legislation, and on methods of reducing food costs. Visits to local markets. Economy of time, labor, money, and equipment.
- 333x. *Introduction to Research in Cookery*. Cr. 3 (1-6). Sem. II. (Formerly 335). Prerequisite: Foods 232x. Experimental work in the field of cookery. Factors influencing food preparation. Comparison of commercially prepared with home prepared foods. Not offered in 1934-35.
- 421x. *Nutrition in Disease*. Cr. 2 (2-0). Sem. II. (Formerly 433). Prerequisite: Foods 432x. Adaptation of diet to disorders of nutrition. Specific diseases, the prevention and care of which are largely influenced by diet. Given in alternate years; not given in 1934-35.
- 431x. *Catering*. Cr. 3 (1-6). Sem. II. (Formerly 431). Prerequisite: Junior or senior standing and completion of foods courses satisfactory to instructor. Consideration of food service to the public as a possible profession. Food preparation and service for special occasions. Given in alternate years; given in 1934-35.
- 432x. *Advanced Nutrition*. Cr. 3 (3-0). Sem. II. (Formerly 432). Prerequisite: Foods 231x. Nutritive requirements from infancy to old age. Emphasis upon the functions of the dietary essentials, and the relation of the chemistry and physiology of digestion to these essentials. Survey of current literature.

The following advanced undergraduate courses may be used as minors or electives for a master's degree provided an additional special problem is done in each course: Foods 333x, 432x.

DEPARTMENT OF HOME ECONOMICS EDUCATION

Professors Weeks, Erwin. Assistant Professor Johnson.

The curriculum in the Department of Home Economic Education is planned to meet the requirements for the Texas Special Permanent Teachers Certificate in Home Economics. This curriculum also meets the requirements of the four-year high school certificate. Students who wish to qualify for the Vocational Certificate of Approval, in order to teach vocational home economics, in addition to completing the requirements of the Home Economics Education curriculum, must fulfill the following:

1. Home project work as an outgrowth of class work.
2. Experience in actual home making.

Plans for these requirements should be made early in the course. A statement concerning them must be filed in the office of the Dean of Home Economics before a student enters the senior year.

Also in order to qualify for the Vocational Certificate of Approval, no grade lower than C may be counted in the number of semester hours offered in required Home Economics subjects.

411x. *Home Economics Seminar*. Cr. 1 (1-0). Sem. II. Prerequisite: Senior standing in Home Economics. Reports and discussions on assigned topics based on recent literature and research.

431x. *Methods of Teaching Home Economics*. Cr. 3 (3-0). Sem. I and Sem. II. (Formerly 432 and part of 431). Prerequisite: Ed. 234x; senior standing. Problems involved in teaching home economics in the public schools. Study of Texas state course of study in home economics; lesson planning; collection and organization of teaching material; home projects; methods of testing instruction; teaching aids; equipment, business management.

432x. *Improvement of Techniques in Home Economics Teaching*. Cr. 3 (3-0). S. Prerequisite: Experience in teaching home economics in high school. Special instruction in the problem method of teaching; aid in solving problems involved in the teaching and administration of home economics in the public schools. Offered in the summer only; taught by the District Supervisor of Home Economics Education.

433x. *Methods in Parent Education and Child Development*. Cr. 3 (3-0) S. Prerequisite: Experience in teaching home economics in high school or special permission of the instructor.

Methods of conducting adult classes in parent education and child development. Offered in the summer session only.

- 441x. *Student Teaching in Home Economics*. Cr. 4 (1-9). Sem. I and Sem. II. (Formerly 461). Prerequisite: H. E. Ed. 431x. Supervised observation and teaching in the Lubbock and Slaton high schools.

The following advanced undergraduate courses may be used as minors or electives for a master's degree provided an additional special problem is done in each course: H. E. Ed. 431x, 432x, 433x, 441x.

DEPARTMENT OF HOME MANAGEMENT

Professor Weeks. Associate Professor Twyford.

The Department of Home Management aims to give students an appreciation of the value of good management in the various phases of home life, as well as to provide means of developing skill in home making activities. The courses are open to students in the College who have completed the prerequisite. Residence in the Home Management House gives opportunity for securing experience in the managerial and social problems of home making.

- 322x. *Home Nursing*. Cr. 2 (1-3). Sem. II. (Formerly H. E. 322). Prerequisite: Six hours in Zoology or Chemistry. Methods of caring for the sick in the home with emphasis on positive health. Demonstrations in charge of a registered nurse at a local hospital.
- 331x. *Household Management*. Cr. 3 (2-3). Sem. I. (Formerly H. E. 322). Prerequisite: Twelve hours in Home Economics. Household accounts and budgets; efficient plumbing, heating, ventilation and lighting systems for the home; the selection, operation and care of household equipment; and the organization of work in the home in order to save time, labor, and money.
- 421x. *Child Development*. Cr. 2 (1-3). Sem. I. (Formerly H. E. 333). Prerequisite: Psy. 230x or Psy. 231x. Factors in the physical, social, and emotional development of children; emphasis on the environmental factors of the home affecting the child's development. Opportunity for observation in the nursery school during the summer session only.
- 422x. *Family Relations*. Cr. 2 (2-0). Sem. II. (Formerly H. E. 431). Prerequisite: Senior standing. Factors in American family life; emphasis on present day problems relating to the home.

- 431x. *Practicum in Nursery School*. Cr. 3 (1-6). S. (Formerly H. E. 334). Prerequisite: H. Mgt. 421x. Observation and participation in the nursery school.
- 432x. *Residence in Home Management House*. Cr. 3. Sem. I and Sem. II. (Formerly Gen. H. E. 461 or 321x). Prerequisite: H. Mgt. 331x; 12 hours in Foods. Living in Home Management House for nine weeks under supervision. Foods preparation and service, housekeeping, household finance, hospitality, and group relationship studied and put into practice. Students pay a fixed sum for room and board. If this course is scheduled in summer school, the credit is two semester hours.

The following advanced undergraduate courses may be used as minors or electives for a master's degree provided an additional special problem is done in each course: H. Mgt. 431x, 432x.

HOME ECONOMICS ORIENTATION

- 111x. *Orientation for Home Economics Students*. Cr. 1. (1-0). Sem. I. The basic course for all future courses in the Division of Home Economics. The units offered include: (a) the relationship of the student with her college; (b) the development of right habits of study; (c) student budgets of time and money; (d) simple vocational guidance. Required of all freshman Home Economics students.

DIVISION OF ARTS AND SCIENCES

JAMES M. GORDON, DEAN.

WILLIAM BRYAN GATES, ASSISTANT DEAN.

The Division of Arts and Sciences has two important functions in Texas Technological College.

First, it offers degree courses in Biology, Business Administration, Chemistry, Economics, Education and Psychology, English, Foreign Languages, Geology, Government, History, Journalism, Mathematics, Military Science, Music, Philosophy, Physical Education, Physics, Sociology, and Speech.

Second, the Division of Arts and Sciences serves as a subject matter division for all divisions of the institution. No matter what curriculum a student may select, whether it be in Agriculture, Engineering, Home Economics, Business Administration, a science, or in any other major, he takes some of the fundamental subjects such as English, Mathematics, History, Economics, Physics, Foreign Languages, Speech, and Journalism as foundation courses.

UNDERGRADUATE DEGREES

In the Division of Arts and Sciences work is offered leading to four undergraduate degrees: Bachelor of Arts, Bachelor of Science, Bachelor of Business Administration, and Bachelor of Science in Education.

MASTER'S DEGREES

In addition to work offered for undergraduate degrees, the Division of Arts and Sciences gives graduate work in certain departments leading to the degrees: Master of Arts, Master of Science, and Master of Science in Education. Discussion of graduate work, including admission, divisions and departments offering graduate work, and graduate degrees given, will be found in this catalogue under the subject of *Graduate Study*.

ADMISSION

The work in the freshman year is planned to follow graduation from a regularly accredited four-year high school with a minimum of fifteen affiliated units. For details of admission requirements see the general discussion in this catalogue under the subject of *Entrance*.

REQUIREMENTS FOR GRADUATION

The completion of the work for a degree usually requires four years. During the first two years the student is expected to complete the minimum requirements for the specific degree. Only for exceptional reasons, and then with the approval of his Dean, may a student postpone the freshman and sophomore requirements beyond his sophomore year. The work of the junior and senior years varies according to the degree sought and is discussed under the curriculum requirements set up for each degree.

THE BACHELOR OF ARTS DEGREE

The Bachelor of Arts degree is planned for persons who are interested in a general college course, and aims to provide the fundamentals of a liberal education. It proposes to furnish general experiences in the humanities, the physical and biological sciences, and the social sciences, and has for its objective liberal culture while maintaining a high standard of scholarship. It aims also to give a foundation for professional and technical subjects and for graduate study and research.

For the Bachelor of Arts degree 128 semester hours work are required, including physical education or military science, together with a minimum of 124 grade points exclusive of physical education or military science courses.

The minimum residence requirements for graduation are two semesters and thirty semester hours credit. If only one year is spent in residence it should be the last year. Further information relative to credits allowed for courses taken in other colleges may be found under *Entrance*.

CURRICULA FOR THE DEGREE BACHELOR OF ARTS

UNIFORM FRESHMAN AND SOPHOMORE YEARS

To be used except for Pre-law and Pre-medical students

	Semester Hours	
	Sem. I	Sem. II
Freshman Year		
Eng. 131x-2x. Freshman Composition	3	3
A foreign language	3	3
A natural science	3	3
Hist. 131x-2x. History of Civilization	3	3
or		
Govt. 131x. American Government, National and		
Govt. 132x. American Government, State		
*Math. 130x. Algebra	3	
*Math. 131x. Trigonometry		3
Orient. 111x. Orientation	1	
Physical Education or Military Science	1	1
	17	16
Sophomore Year		
Eng. 231x-2x. Introduction to Literature	3	3
**The foreign language begun in the freshman year	3	3
Government or History	3	3
***A natural science	3	3
Phil. 233x. Introduction to Philosophy or Psy. 230x. Intro- duction to Psychology	3	
Elective		3
Physical Education or Military Science	1	1
	16	16

*If three and a half units of mathematics are accepted for admission, including algebra, plane geometry, and plane trigonometry, no further courses in mathematics are required. If three units are accepted, Math. 131x is required; if only two units are accepted, Math. 130x and 131x are required in college.

**If three or more units in a foreign language are accepted for admission, one year in college of the same language (a 300 course or above) will absolve the foreign language requirement. If no admission units in foreign language are accepted, three years or eighteen semester hours in college are required for graduation.

***If two or more units of laboratory science are accepted for admission, one year of a laboratory science in college will absolve the natural science requirement. If two years are required in college, they cannot both be offered in the same subject.

THE JUNIOR AND SENIOR YEARS

The student will be expected to select a major and a minor subject by the time he reaches his junior year. For his major subject he will be required to complete twenty-four semester hours in addition to the minimum degree requirements in that subject. Of these twenty-four hours, eighteen hours must be courses of junior and senior rank. For his minor, he will complete a minimum of eighteen semester hours, at least six of which must be advanced.

In the case of a subject offered as a major in which no specific courses are included in the uniform requirements for a degree, a minimum of thirty semester hours must be completed in the major subject. 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 number of semester hours required in the major. The courses in the major subject must be approved by the head of that department.

Not more than forty-two semester hours in one subject may be counted in the requirements for the Bachelor of Arts degree; not more than twelve hours in Biblical History and Literature may be counted, nor more than seven hours in Music, except for those offering public school music as a major or minor. (See *Department of Music*.) A maximum of twenty-four semester hours may be offered for the Bachelor of Arts degree as electives in the technical or professional subjects of Agriculture, Business Administration, Education, Engineering, and Home Economics.

COURSES LEADING TO THE STUDY OF LAW OR MEDICINE

Texas Technological College does not have schools of law or medicine, but it offers courses preparatory to admission to schools of law and medicine.

STUDIES PREPARATORY TO LAW

The minimum requirements for admission to any standard law school are fifteen entrance units, as prescribed by the Division of Arts and Sciences, and two full years (sixty semester hours) of college work.

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

CURRICULUM FOR PRE-LAW STUDENTS

	Semester Hours	
	Sem. I	Sem. II
Freshman Year		
Eng. 131x-2x. Freshman Composition	3	3
Hist. 133x-4x. History of British Civilization	3	3
Govt. 131x. American Government, National	3	.....
Govt. 132x. American Government, State .....	.....	3
Math. 130x. Algebra	3	.....
Math. 131x. Trigonometry .....	.....	3
Math. 137x. Commercial Algebra .....	.....	.....
Math. 138x. Mathematics of Finance .....	.....	.....
A natural science	3	3
Orient. 111x. Orientation	1	.....
Physical Education or Military Science	1	1
	17	16
Sophomore Year		
Eng. 231x-2x. Introduction to Literature	3	3
Hist. 231x-2x. History of the United States	3	3
Govt. 231x. Introduction to Political Science	3	.....
Govt. 232x. Modern Governments .....	.....	3
Eco. 231x-2x. Principles of Economics	3	3
B. A. 234x-5x. Introduction to Accounting	3	3
Physical Education or Military Science	1	1
	16	16

JUNIOR YEAR

If the student desires to take a third year of work preparatory to the study of law, which is 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 Texas Technological College upon the completion of three years of work in the Division of Arts and Sciences of this College and three years of work in a standard law school.

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

Dr. W. A. Jackson, Head of the Department of Government, is the adviser for pre-law students.

STUDIES PREPARATORY TO MEDICINE

The minimum requirements for admission to any standard medical school are fifteen entrance units, as prescribed by the Division of Arts and Sciences, and a minimum of two full years of selected college work. The following course of study is set up for students who plan to study medicine:

CURRICULUM FOR PRE-MEDICAL STUDENTS

	Semester Hours	
	Sem. I	Sem. II
Freshman Year		
Chem. 131x-2x. General Chemistry	3	3
Chem. 220x. Qualitative Analysis		2
Zool. 131x-2x. General Zoology	3	3
Eng. 131x-2x. Freshman Composition	3	3
German 131x-2x. A Beginning Course in German	3	3
or		
French 131x-2x. A Beginning Course in French		
Govt. 131x. American Government, National	3	
and		
Govt. 132x. American Government, State		3
or		
Hist. 131x-2x. History of Civilization		
Orient. 111x. Orientation	1	
Physical Education or Military Science	1	1
	17	18
Sophomore Year		
Chem. 343x-4x. Organic Chemistry	4	4
Zool. 231x-2x. Vertebrate Anatomy	3	3
Phys. 131x-2x. Elements of College Physics	3	3
Phys. 211x-2x. Physical Measurements	1	1
Eng. 231x-2x. Introduction to Literature	3	3
The foreign language begun in the freshman year	3	3
Physical Education or Military Science	1	1
	18	18

NOTE: Students who definitely plan to spend three or more years in their pre-medical training may well postpone Chemistry 220x until a later year.

The courses outlined for the freshman and sophomore years fulfill the minimum requirements for admission to the majority of class A medical colleges. The satisfactory completion of this work does not guarantee admission to such medical colleges, however, and students are finding it more and more difficult to obtain admission with only the minimum requirements fulfilled. A third or a fourth year's work or a bachelor's degree are often desirable, if not required.

THE DEGREE BACHELOR OF ARTS FOR PRE-MEDICAL STUDENTS

The degree Bachelor of Arts for Pre-medical students may be obtained in one of two ways:

A. While in residence at Texas Technological College by completing the requirements outlined in this catalogue. Pre-medical students will probably select Chemistry or Zoology as their major subject and their junior and senior years are outlined accordingly. Pre-medical students are advised to take as many courses in these departments as possible.

Junior Year. Chem. 331x-2x and Zool. 331x-2x should be taken in this year with at least one other course in the major science. Required courses in other departments and electives will complete this year's work.

Senior Year. A sufficient number of courses in the major department to complete the major requirement and all other required courses in other departments, not previously taken, should be taken together with sufficient electives to bring the total to 128 semester hours credit.

Chemistry Major. In addition to the courses outlined above those students who complete their major requirement in the Department of Chemistry should take Chem. 242x, 434x, 411x-2x, 430x, and Bact. 331x-2x. Chem. 441x-2x may be substituted for an equivalent amount of any of the above courses except Chem. 411x-2x by those students who have completed the mathematics requirement.

Zoology Major. In addition to the courses outlined above under their respective years students who complete their major requirement in Zoology should take Biol. 231x, Biol. 411x-2x, Bact. 331x-2x, and Zool. 431x-2x.

B. By completing three years of work in the Division of Arts and Sciences and two years in a class A college, upon satisfying the following conditions.

1. Of the three years of pre-medical work at least the junior year must be completed in residence at Texas Technological College. This minimum will apply to transfers from other colleges provided they have satisfactorily completed the work outlined in the freshman and sophomore years or its equivalent.

2. The satisfactory completion of all required courses through the junior year and sufficient elective courses to make a minimum total of 100 semester hours credit.

3. A minimum of 2 semester hours of Government.

4. Submission of properly approved credentials from a class A medical college to the effect that the applicant has completed satisfactorily the first two years of the work leading to the degree of Doctor of Medicine.

5. Two years of physical education or military science.

6. The regular grade point requirement.

Dr. R. C. Goodwin, Head of the Department of Chemistry and Chemical Engineering, is the adviser for pre-medical students. Each pre-medical student should consult with him during each registration period.

NOTE: The medical aptitude tests, sponsored by the Association of American Medical Colleges, may be taken at Texas Technological College.

THE BACHELOR OF SCIENCE DEGREE

Certain students are definitely interested in the sciences. For such students the curriculum leading to the degree of Bachelor of Science has been arranged. In order to give time for a better understanding upon which to base the choice of a major, a uniform curriculum for the freshman year is outlined for all freshman candidates for the Bachelor of Science degree. If possible, the student should choose as his major science one of the required sciences of his freshman year.

CURRICULA FOR THE DEGREE BACHELOR OF SCIENCE

Uniform Freshman Year

Two courses to be chosen from the following:

Biology (Bot. 131x-2x; Zool. 131x-2x); Chem. 131x-2x; Geol. 131x-2x; Phys. 131x-2x or 133x-4x	6	6
Eng. 131x-2x. Freshman Composition	3	3
A modern language	3	3
Mathematics	3	3
Orient. 111x. Orientation	1	1
Physical Education or Military Science	1	1
	17	16

The sophomore, junior, and senior years follow definite majors which depend upon the departmental requirements and are outlined separately by the several departments.

The general requirements for the degree, as they relate to any of the laboratory sciences, are as follows:

Semester Hours

1. English	12
2. A modern language	12
3. Mathematics	6
4. Economics or Business Administration	6
5. Government	2
6. Orientation	1
7. Physical Education or Military Science	4

8. Additional courses to make a total of 130 semester hours as a minimum, of which at least 72 semester hours are to be completed in the Departments of Biology, Chemistry, Geology, and Physics—at least six semester hours in each department. Students with their major in Physics, however, may substitute six semester hours of Mathematics for six semester hours of a science elective.

9. The major and minor requirements may be met in either of two ways: (1) At least 36 semester hours in any one of the above named sciences shall constitute a major and no specific minor will be required. The proper sequence, gradation, and number of courses will be left to the department in which the major is taken. (2) At least 24 semester hours above the freshman course may be taken in any one department for a major. In this case a minor consisting of a minimum of 12 semester hours above the freshman course must be taken in a second science department.

In either event all electives in any curriculum are to be approved by the head of the department in which the student seeks his degree.

CURRICULUM FOR THE DEGREE BACHELOR OF SCIENCE BOTANY MAJOR

Semester Hours
Sem. I Sem. II

For The Uniform Freshman Year See Page 162

Sophomore Year

*Bot. 231x. Morphology of Higher Plants	3	.....
*Bot. 232x. Taxonomy of Higher Plants		3
Science—courses in the two science departments not represented in the freshman year	6	6
Eng. 231x-2x. Introduction to Literature	3	3
A modern language—a second course in the modern language begun in the freshman year	3	3
Physical Education or Military Science	1	1
	16	16

Junior Year

Bot. 331x. Plant Physiology	3	.....
Bot. 332x. Morphology of Lower Plants		3
Zool. 131x-2x. General Zoology or		
Zool. 235x-6x. The Human Body	3	3
Chem. 343x-4x. Organic Chemistry	4	4
Economics or Business Administration elective	3	3
Electives (To be approved by Head of Department)	3	3
	16	16

Senior Year

Bot. 431x. Botanical Technique	3	.....
Bot. 432x. Advanced Plant Anatomy		3
Bact. 331x-2x. General Bacteriology	3	3
Biol. 411x-2x. Biology Seminar	1	1
Govt. 320x. American Government, National and State	2	.....
Science electives (To be approved by Head of Department)	3	6
Electives (To be approved by Head of Department)	4	4
	16	17

*If botany was not begun in the freshman year, the student will substitute Bot. 131x-2x and register for additional work in Botany during his junior year.

**CURRICULUM FOR THE DEGREE BACHELOR OF SCIENCE
ZOOLOGY MAJOR**

Semester Hours
Sem. I Sem. II

For The Uniform Freshman Year See Page 162

Sophomore Year

*Zool. 231x-2x. Vertebrate Anatomy	3	3
Science—courses in the two science departments not represented in the freshman year	6	6
Eng. 231x-2x. Introduction to Literature	3	3
A modern language—a second course in the modern language begun in the freshman year	3	3
Physical Education or Military Science	1	1
	<hr/> 16	<hr/> 16

Junior Year

Zool. 331x-2x. Animal Histology and Embryology	3	3
Bot. 131x-2x. General Botany	3	3
Chem. 343x-4x. Organic Chemistry	4	4
Economics or Business Administration elective	3	3
Electives (To be approved by Head of Department)	3	3
	<hr/> 16	<hr/> 16

Senior Year

Zool. 431x-2x. Animal Cytology	3	3
Bact. 331x-2x. General Bacteriology	3	3
Biol. 411x-2x. Biology Seminar	1	1
Govt. 320x. American Government, National and State	2	.....
Science electives (To be approved by Head of Department)	3	6
Electives (To be approved by Head of Department)	4	4
	<hr/> 16	<hr/> 17

*If Zoology was not begun in the freshman year, the student will substitute Zool. 131x-2x and register for additional work in Zoology during his junior year.

**CURRICULUM FOR THE DEGREE BACHELOR OF SCIENCE
CHEMISTRY MAJOR**

Semester Hours
Sem. I Sem. II

For The Uniform Freshman Year See Page 162

Sophomore Year

Two Science courses, one in each of the two science departments not represented in the freshman year	6	6
*Chem. 220x. Qualitative Analysis	2	.....
Chem. 242x. Inorganic Chemistry .....	.....	4
Math. 131x. Plane Trigonometry	3	.....
Math. 132x. Analytic Geometry .....	.....	3
A second course in English or in a modern language	3	3
Physical Education or Military Science	1	1
	<hr/>	
	15	17

Junior Year

Chem. 331x-2x. Analytical Chemistry	3	3
Chem. 343x-4x Organic Chemistry	4	4
Math. 251x. Differential and Integral Calculus	5	.....
A second course in English or in a modern language	3	3
Science electives .....	.....	6
	<hr/>	
	15	16

Senior Year

Chem. 441x-2x. Physical Chemistry	4	4
Chem. 411x-2x. Seminar	1	1
A second course in Physics	3	3
Economics or Business Administration elective	3	3
Govt. 320x. American Government, National and State .....	.....	2
Science elective .....	.....	3
Electives	7	.....
	<hr/>	
	18	16

*If Chem. 131x-2x was not taken in the freshman year, it should be taken in the sophomore year. The sequence of courses in Chemistry will then be different.

CURRICULUM FOR THE DEGREE BACHELOR OF SCIENCE GEOLOGY MAJOR

Semester Hours
Sem. I Sem. II

For The Uniform Freshman Year See Page 162

Sophomore Year

*Geol. 231x-2x. Mineralogy	3	3
Two science courses—one in each of the two science departments not represented in the freshman year	6	6
Eng. 231x-2x. Introduction to Literature	3	3
A foreign language	3	3
Physical Education or Military Science	1	1
	<hr/>	<hr/>
	16	16
**Geol. 363x. Field Geology (Summer)		6

Junior Year

Geol. 333x. Petrology: Optical Mineralogy	3	.....
Geol. 334x. Petrology: Descriptive		3
Geol. 335x-6x. General Paleontology	3	3
Science elective	3	3
Eco 231x-2x. Principles of Economics	3	3
Govt. 320x. American Government, National and State	2	.....
Elective	3	3
	<hr/>	<hr/>
	17	15

Senior Year

Geol. 422x. Geology of Texas	2	.....
Geol. 423x. Seminar		2
Geol. 431x-2x. Advanced General Geology	3	3
Geol. 433x. Structural Geology	3	.....
Geol. 434x. Petroleum Geology		3
Geol. 435x. Index Fossils	3	.....
Geol. 436x. Micropaleontology		3
Electives	3	3
***Science elective	3	.....
	<hr/>	<hr/>
	17	14

*If Geology was not begun in the freshman year, the student will substitute Geol. 131x-2x and register for additional work in Geology during his junior year.

**May be taken any summer after the proper prerequisites have been met. May be used as a junior or senior elective.

***Either semester.

CURRICULUM FOR THE DEGREE BACHELOR OF SCIENCE PHYSICS MAJOR

Semester Hours
Sem. I Sem. II

For The Uniform Freshman Year See Page 162

Sophomore Year

*Phys. 231x-2x. Sophomore Physics	3	3
Two science courses—one in each of the two science departments not represented in the freshman year	6	6
Math. 131x. Plane Trigonometry	3	.....
Math. 132x. Analytic Geometry .....	.....	3
The foreign language begun in the freshman year	3	3
Physical Education or Military Science	1	1
	<hr/> 16	<hr/> 16

Junior Year

Phys. 331x. Light	3	.....
Phys. 332x. Heat .....	.....	3
Phys. 333x-4x. Electricity and Magnetism	3	3
Math. 251x. Differential and Integral Calculus	5	.....
C E. 233x. Applied Mechanics—Statics .....	.....	3
Eng. 231x-2x. Introduction to Literature	3	3
Elective	3	3
	<hr/> 17	<hr/> 15

Senior Year

Phys. 423x-4x. Electrical Measurements	2	2
Phys. 435x-6x. Introduction to Modern Physics	3	3
Phys. 513x-4x. Physics Seminar	1	1
C E. 332x. Kinematics and Kinetics	3	.....
Science elective	3	3
Govt. 320x. American Government, National and State .....	.....	2
Economics elective .....	.....	3
Elective	4	3
	<hr/> 16	<hr/> 17

*In case the student has not taken Physics during his freshman year, he should begin his sophomore year with freshman Physics. The sequence of courses in Physics would then be different.

**CURRICULUM FOR THE DEGREE BACHELOR OF SCIENCE
MATHEMATICS MAJOR**

Semester Hours
Sem. I Sem. II

For The Uniform Freshman Year See Page 162

Sophomore Year

Math. 235x-6x. Analytic Geometry	3	3
Eng. 231x-2x. Introduction to Literature	3	3
The foreign language begun in the freshman year	3	3
*Physics	3	3
A second science	3	3
Physical Education or Military Science	1	1
	<hr/>	<hr/>
	16	16

Junior Year

Math. 335x-6x. Differential and Integral Calculus	3	3
Math. 334x. Advanced Algebra	3	.....
Math 332x. Theory of Equations and Determinants .....	.....	3
Phil. 232x. Logic	3	.....
C. E. 233x. Applied Mechanics—Statics .....	.....	3
Math. 123x. Popular Astronomy	2	.....
Govt. 320x. American Government, National and State .....	.....	2
Science elective or C. E. 231x. Plane Surveying	3	.....
and C. E. 334x. Surveying .....	.....	3
Electives (To be approved)	3	3
	<hr/>	<hr/>
	17	17

Senior Year

Math. 431x. Advanced Calculus	3	.....
Math. 432x. Differential Equations .....	.....	3
Math. 437x. Higher Geometry	3	.....
Math. 438x. Solid Analytic Geometry .....	.....	3
C. E. 332x. Applied Mechanics, Kinematics and Kinetics	3	.....
Science elective .....	.....	3
Electives (To be approved)	7	6
	<hr/>	<hr/>
	16	15

*If Physics was not begun in the freshman year, the student will be required to complete two years of Physics. The sequence of courses will then be different.

CURRICULUM FOR THE BACHELOR OF BUSINESS ADMINISTRATION

Semester Hours
Sem. I Sem. II

Freshman Year

Eng. 131x-2x. Freshman Composition	3	3
Hist. 133x-4x. History of British Civilization	3	3
Math. 137x. Commercial Algebra	3	.....
Math. 138x. Mathematics of Finance .....	.....	3
Govt. 131x. American Government, National	3	.....
Govt. 132x. American Government, State .....	.....	3
A natural science	3	3
Orient. 111x. Orientation	1	.....
Physical Education or Military Science	1	1
	17	16

Sophomore Year

Eng. 231x-2x. Introduction to Literature	3	3
Math. 237x. Mathematics of Insurance	3	.....
Math. 238x. Statistics .....	.....	3
Eco. 231x-2x. Principles of Economics	3	3
Eco. 233x. Economic Development of Europe	3	.....
Eco. 234x. Economic Development of the United States .....	.....	3
B. A. 211x. Elementary Typewriting	1	.....
B. A. 234x-5x. Introduction to Accounting	3	3
Physical Education or Military Science	1	1
	17	16

Junior Year

B. A. 330x. Introduction to Finance	3	.....
B. A. 331x. Corporation of Finance .....	.....	3
B. A. 332x. Principles of Marketing	3	.....
B. A. 333x. Marketing Problems .....	.....	3
B. A. 334x-5x. Business Law	3	3
Psy. 230x. Introduction to Psychology	3	.....
Eng. 3311x. English in Business Practice .....	.....	3
Speech 321x. Business Speech	2	.....
Electives (to be approved)	3	3
	17	15

Senior Year

B. A. 435x. Business Policy .....	.....	3
Economics and Business Administrative Electives	6	3
General Electives (To be approved)	9	9
	15	15

THE DEGREE BACHELOR OF SCIENCE IN EDUCATION

The degree Bachelor of Science in Education is set up specifically for teachers in order to give definite professional training in their field of work.

The work of the freshman year is largely prescribed.

In the sophomore year the student may choose the particular field of education in which he desires to work. Choice must also be made of the subject-matter field in which he desires to prepare for teaching. The student must also elect a second subject which he may use as a subject-matter minor in his classroom teaching.

During the junior and senior years the student is expected to continue in the field of education, as well as in the subject-matter major and minor fields. The prescribed subjects together with electives total 130 semester hours, with a minimum of 140 grade points.

CURRICULUM FOR THE DEGREE BACHELOR OF SCIENCE IN EDUCATION

	Semester Hours	
	Sem. I	Sem. II
Freshman Year		
Ed. 131x. Introduction to Education	3	.....
Ed. 132x. Classroom Management and Methods .....	.....	3
Eng. 131x-2x. Freshman Composition	3	3
*A natural science	3	3
Govt. 131x. American Government, National	3	.....
and		
Govt. 132x. American Government, State .....	.....	3
or		
History		
or		
Speech 131x-2x. Fundamentals of Speech	3	3
Subject-matter major	1	.....
Orient. 111x. Orientation	1	1
Physical Education or Military Science .....	.....	.....
	17	16
Sophomore Year		
Education	3	3
Eng. 231x-2x. Introduction to Literature	3	3
Zool. 235x-6x. The Human Body	3	3
Subject-matter major	3	3
Subject-matter minor	3	3
Physical Education or Military Science	1	1
	16	16
Junior and Senior Years		
Psychology	3	
Sociology	3	
Physical Education	6	
Subject-matter major	12	
Subject-matter minor	12	
**Education	18	
Electives	11	
	65	

*If the subject-matter field is chosen in science, Mathematics may be substituted for the natural science in the freshman year.

**Courses in education shall include 6 hours in tests and measurements.

TEACHING MAJOR AND MINOR REQUIREMENTS

Social Science (History, Government, Economics, Sociology)

Major: 18 hours in one subject, at least 12 advanced; 6 hours each in two other subjects—total, 30.

Minor: 12 hours in one subject, at least 6 advanced; 6 hours in each of two other subjects—total, 24.

General Science

Major: 18 hours in one science, at least 12 above the basic course; 6 hours each in two other sciences—total, 30.

Minor: 12 hours in one science, at least 6 above the basic course; 6 hours each in two other sciences—total, 24.

Foreign Languages

Major: 18 hours in one subject, at least 12 above the basic course; 12 hours in one other subject—total, 30.

Minor: 12 hours in each of two subjects—total, 24.

Primary Education

Major: 15 hours in materials, methods, and subject-matter employed in the primary grades. (This in addition to the 30 hours of Education required for this degree)

Minor: 9 hours, 6 of which must be advanced.

Physical Education

Major: 30 hours, including Zool. 235x-6x, at least 9 advanced.

Minor: 18 hours, at least 6 advanced

Band or Orchestra Music

Major: 30 hours (For band major, 6 of the 30 hours will be in conducting and teaching methods for band.)

Minor: 18 hours (12 hours in band music; 2 hours in conducting and teaching methods; 4 hours in theory)

Teaching majors and minors in subject-matter fields will be offered in other subjects in the Division of Arts and Sciences, such as English, History, Mathematics, Speech, and others, as desired by the student. In general, a teaching major requires 24 semester hours, 12 of which must be above sophomore rank, whereas a teaching minor requires a minimum of 18 semester hours, 6 of which must be advanced.

NOTE: The courses taken by candidates for the degree Bachelor of Science in Education are to be approved as follows:

1. Teaching major subjects to be approved by head of the department.
2. Social science, general science, and foreign languages to be approved by the head of the department in which the major portion of the work is done.
3. All majors and minors to be approved by the Head of the Department of Education, and by the Dean of the Division of Arts and Sciences.

DEPARTMENT OF BIOLOGY

Professors Studhalter, Reed. Associate Professors Landwer,
League. Instructor Sealey.

The Biology Department offers courses for the following groups of students: (1) those working toward the Bachelor of Science or the Bachelor of Arts degree; (2) pre-medical, pre-dental, and pre-pharmacy students; (3) those from other divisions or departments wishing Biology courses as a background; (4) prospective teachers of Biology in the high school, or health and hygiene in the grades.

Students desiring the Bachelor of Science degree with a major in Botany or Zoology follow the curriculum outlined for the course. These courses of study supplement the general requirements and the uniform freshman year for the Bachelor of Science degrees, described elsewhere in this catalogue.

BACTERIOLOGY

- 231x. *Bacteriology*. Cr. 3 (2-3). Sem. I and Sem. II. (Formerly 231 or 232-3). Intended primarily for students of Agriculture, and of Home Economics, in their sophomore or junior year. The morphology and physiology of bacteria, with special emphasis on the bacteria and molds of food products.
- 321x. *Bacteriology for Engineers*. Cr. 2 (1-3). Sem. I. (Formerly 334). The morphology and physiology of bacteria, with special emphasis on water purification and sewage disposal.
- 331x-2x. *General Bacteriology*. Cr. 3 (2-3). Sems. I and II. (Formerly 331-2-3). Prerequisite: Twelve semester hours in Botany, Zoology, Chemistry, Geology, or Physics; prerequisite or parallel: 6 semester hours in Chemistry. The structure and functions of the various types of bacteria; water purifications; sewage disposal; some of the disease-producing organisms; the problems of immunity.

BIOLOGY

- 221x. *Teaching of Biology*. Cr. 2 (2-0). S. (Formerly 211-2-3). Prerequisite: Twelve semester hours in Botany or Zoology. Lectures, assigned readings, reports, and laboratory problems; the laboratory and its equipment, biological illustrations, collections, exhibits, herbaria, types of biology courses, text-books, references, biological institutions and workers. May be counted as Education or as Biology.

- 231x. *Heredity and Evolution*. Cr. 3 (2-3). Sem. I. (Formerly 231 and 232). Prerequisite: Six semester hours in Botany or Zoology. Principles of heredity in plants, animals, and man, with emphasis on the cytological background for genetics; organic evolution, with illustrations from both the animal and plant kingdoms. The laboratory period is devoted to demonstrations and to the working of problems in genetics.
- 411x-2x. *Biology Seminar*. Cr. 1 (1-0). Sems. I and II. (Formerly 411-2-3). Prerequisite: Senior standing in Botany or Zoology, or the consent of the Head of the Department. Reports on assigned topics, based chiefly on current biological literature and research. May be repeated for full credit.

BOTANY

- 131x-2x. *General Botany*. Cr. 3 (2-3). Sems. I and II. (Formerly 131-2-3). Botany and its subdivisions; introductory survey of plant kingdom; macroscopic survey of the seed plants; cellular structure and physiology of the seed plants; review of the plant groups from the algae to the flowering plants.
- 133x-4x. *Field Botany*. Cr. 3 (2-3). S. Ecology, taxonomy, and gross morphology of the various groups of plants, with emphasis on the plant in its relation to the environment. Studies made at several selected camp-sites in the Southwest. May be substituted for Bot. 131x-2x in the requirements for the Bachelor of Arts and Bachelor of Science degrees. Open to freshman students.
- 231x. *Morphology of Higher Plants*. Cr. 3 (2-3). Sem. I. (Formerly 232). Prerequisite: Bot. 131x-2x. Morphology of the ferns, fern allies, and all the seed-bearing plants; the rudiments of plant anatomy.
- 232x. *Taxonomy of Higher Plants*. Cr. 3 (2-3). Sem. I. (Formerly 233). Prerequisite: Bot. 131x-2x. Classification of the ferns, fern allies, and seed-bearing plants, with emphasis upon the local flora.
- 331x. *Plant Physiology*. Cr. 3 (1-6). Sem. I. (Formerly 331-2-3). Prerequisite: Twelve semester hours in Botany, or 6 semester hours in Botany and 11 in Horticulture and Agronomy; prerequisite or parallel: 6 semester hours in Chemistry. Absorption, water transport, transpiration, nutrition, photosynthesis, respiration, growth, responses to stimuli. Given in alternate years; not given in 1934-35.
- 332x. *Morphology of Lower Plants*. Cr. 3 (1-6). Sem. II. (Formerly 231). Prerequisite: Twelve semester hours in Botany, or 6 semester hours in Botany and 11 in Horticulture and Agronomy.

my. Morphology of algae, fungi, liverwort, and mosses; rudiments of plant pathology. Given in alternate years; not given in 1934-35.

- 431x. *Botanical Technique*. Cr. 3 (1-6). Sem. I. (Formerly part of 431-2-3). Prerequisite: Eighteen semester hours in Botany. Freehand and microtome sections; staining; making of permanent slides.
- 432x. *Advanced Plant Anatomy*. Cr. 3 (1-6). Sem. II. Prerequisite: Eighteen semester hours in Botany. Advanced studies on the tissue systems of the vascular plants, with emphasis on those of economic importance.

ZOOLOGY

- 131x-2x. *General Zoology*. Cr. 3 (2-3). Sems. I and II. (Formerly 131-2-3). The natural history, morphology, and physiology of the vertebrates, with emphasis on the frog; the more important invertebrate phyla; some general principles, as reproduction, adaptation, evolution, and genetics.
- 231x-2x. *Vertebrate Anatomy*. Cr. 3 (2-3). Sems. I and II. (Formerly 237-8-9). Prerequisite: Six semester 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.
- 233x. *Entomology*. Cr. 3 (2-3). Sem. I. (Formerly 236). Prerequisite: Six semester hours in Botany or Zoology. Classroom, laboratory, and field study of the more important insect pests of plants.
- 235x-6x. *The Human Body*. Cr. 3 (2-3). Sems. I and II. (Formerly 134-5-6). Prerequisite: Sophomore standing. 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; the fundamental principles of hygiene and sanitation; the fundamentals of heredity and evolution.
- 331x-2x. *Animal Histology and Embryology*. Cr. 3 (1-6). Sems. I and II. (Formerly 331-2-3). Prerequisite: Zool. 231x-2x. Histology; the preparation and study of permanently mounted sections of animal tissues; the embryology of the higher animals, with emphasis on the chick and the pig.
- 431x-2x. *Animal Cytology*. Cr. 3 (1-6). Sems. I and II. (Formerly 431-2-3). Prerequisite: Zool. 331x-2x. The principles of cytology; histological and cytological technique. In addition to lecture and laboratory work, extensive reading and reports are

required in current zoological problems and in other subjects which furnish the necessary background for the course.

The following courses in this department may be taken for graduate credit: Bact. 321x, 331x-2x; Biol. 411x-2x; Bot. 331x, 332x, 431x, 432x; Zool. 331x-2x, 431x-2x.

DEPARTMENT OF CHEMISTRY AND CHEMICAL ENGINEERING

Professors Goodwin, Craig. Associate Professor Schneider.
Assistant Professor Slagle. Instructor Marshall. Fellows
*Cross, Davis, Henson, *R. P. Roberts, S. M. Roberts
Stewart.

The department of Chemistry and Chemical Engineering offers curricula leading to three degrees. The degree of Bachelor of Science in Chemical Engineering is awarded upon the completion of the requirements outlined by the Division of Engineering. The degree of Bachelor of Arts or the degree of Bachelor of Science, Chemistry Major, is awarded upon the completion of the requirements for the respective degrees as set forth by the Division of Arts and Sciences.

THE DEGREE BACHELOR OF ARTS

The general requirements for the degree of Bachelor of Arts are outlined under *Division of Arts and Sciences*. Thirty semester hours of Chemistry are required as a major for this degree. Any course offered by this department, unless stated to the contrary in the description of that course, may be counted in the fulfillment of this requirement, provided that all prerequisites of that course have been fulfilled. The student is advised to select such courses in consultation with the Head of this Department.

The purpose of this curriculum is to give the student a diversified view of the field of chemistry and, at the same time, to allow an ample and varied choice of other subjects enabling the student to secure a general education. The nature of the courses in Chemistry which must be taken is such, however, that the student is prepared for graduate work should he desire to continue the study of chemistry.

THE DEGREE BACHELOR OF SCIENCE, CHEMISTRY MAJOR

The general requirements for this degree may be found under *Division of Arts and Sciences*. This curriculum is designed to give

*1933-34.

the graduate a well-rounded view of the physical sciences—chemistry, biology, geology, and physics. In addition, the minimum major requirement of thirty-six semester hours in Chemistry will prepare the student for industrial positions in chemical plants and for graduate work in the science.

THE DEGREE BACHELOR OF SCIENCE IN CHEMICAL ENGINEERING

Chemical engineering is recognized today as a distinct branch of engineering. An industrial chemical process in reality consists of a series of unit processes, the proper sequence and coordination of which constitute an engineering science.

Chemical Engineering curriculum is based upon the belief that a student should secure a thorough, fundamental training in both chemistry and engineering. Hence, the "practical" courses are largely omitted. Emphasis is placed on both class and laboratory work. In addition to the professional courses, the curriculum emphasizes the importance of instruction in English, economics, and speech, and prepares the graduate student for more advanced work by the inclusion of German. It is the purpose of this course to train men so that they may be ready to develop into executives, superintendents, and managers of plants in the field of chemical industry. The curriculum for this degree is given under *Division of Engineering*.

- 131x-2x. *General Chemistry*. Cr. 3 (2-3). Each, Sems. I and II. (Formerly 141-2-3). An introductory course. Prerequisite to all other courses in Chemistry. Metals and non-metals and the underlying principles of chemistry. Serves as a six semester-hour science course. Together with Chem. 220x, this course satisfies pre-medical requirements for general chemistry.
- 220x. *Qualitative Analysis*. Cr. 2 (1-3). Sem. I and Sem. II. Prerequisite: Chem. 131x-2x, although 132x may be taken at the same time. The qualitative separation of basic and simple acidic radicals. This course, together with Chem. 131x-2x, completes an eight semester-hour course in general chemistry.
- 242x. *Inorganic Chemistry*. Cr. 4 (3-3). Sem. II. Prerequisite: Chem. 220x. Inorganic materials and principles based on inorganic preparations carried out in the laboratory. These preparations may vary from year to year.
- 322x. *Power Plant Chemistry*. Cr. 2 (1-3). Sem. II. (Formerly 339). Prerequisite: Chem. 131x-2x. Cannot be counted in fulfilling the major requirement in Chemistry. Materials common-

ly used in a power plant—water and fuels. Practical tests of such materials in the laboratory. For Engineers other than Chemical Engineering students.

- 330x. *Teaching of Chemistry*. Cr. 3 (0-9). S. Prerequisite: Chem. 220x and 242x, and 12 semester hours in Education. Methods of teaching elementary chemistry. The construction and equipment of laboratories. Conferences and library work. Cannot be counted toward the fulfillment of the major requirement in Chemistry.
- 331x-2x. *Quantitative Analysis*. Cr. 3 (0-9). Sems. I and II. (Formerly 237-8-9). Prerequisite: Chem. 131x-2x. If Chem. 220x and 242x have not been taken previously, they must be taken parallel with this course. Volumetric and gravimetric methods of quantitative analysis. Recommended for the development of laboratory technique. Strongly urged as an elective for Pre-medical students.
- 341x. *Organic Chemistry*. Cr. 4 (3-3). Sem. I. (Formerly 331-2). Prerequisite: Chem. 131x-2x. Brief. For students in the Divisions of Agriculture and Home Economics. Does not satisfy pre-medical requirements and cannot be counted in fulfilling the major requirement in Chemistry.
- 342x. *Physiological Chemistry*. Cr. 4 (3-3). Sem. II. (Formerly 438-9). Prerequisite: Organic Chemistry, Elementary. For students in the Divisions of Home Economics and Agriculture. Cannot be counted in fulfilling the major requirement in Chemistry.
- 343x-4x. *Organic Chemistry*. Cr. 4 (3-3). Sems. I and II. (Formerly 343-4-5). Prerequisite: Chem. 131x-2x and 220x. The compounds of carbon. Provides a thorough foundation for other courses in organic, physiological, and industrial chemistry. Satisfies pre-medical requirements.
- 411x-2x. *Chemistry Seminar*. Cr. 1 (1-0). Sems. I and II. Required of all candidates for any degree with a Chemistry major. Usually reserved for the senior year. Open to juniors with permission of the Head of the Department. May be counted for credit as often as taken.
- 421x. *Organic Combustion Analysis*. Cr. 2 (0-6). Sem. I. Prerequisite: Consent of the instructor. The ultimate analysis of organic compounds.
- 422x. *Colloid Chemistry*. Cr. 2 (2-0). Sem. II. Prerequisite: Chem. 441x-2x. Colloid chemistry and its application. Given in alternate years; given in 1934-35.

- 423x. *Advanced Qualitative Analysis*. Cr. 2 (0-6). Sem. I. Prerequisite: Consent of instructor. Given in alternate years; not given in 1934-35.
- 430x. *Technical Analysis*. Cr. 3 (0-9). Sem. I and Sem. II. Prerequisite: Consent of instructor. The analysis of water, foods, feeds, alloys, rocks, and cements. Materials analyzed vary from year to year.
- 431x-2x. *Principles of Chemical Engineering*. Cr. 3 (3-0). Sems. I and II. Prerequisite: Chem. 441x-2x and senior standing as a chemical engineering student. Flow of heat; flow of materials; principles of basic unit operations of chemical engineering. Given without laboratory.
- 434x. *Organic Preparations*. Cr. 3 (0-9). Sem. II (Formerly 333). Prerequisite: Consent of instructor. The synthesis of organic materials with special attention to technique and yields.
- 441x-2x. *Physical Chemistry*. Cr. 4 (3-3). Sems. I and II. (Formerly 441-2-3). Prerequisite: Chem. 220x, 242x, 331x-2x, 343x-4x, 5 semester hours in calculus, 9 semester hours in physics, and consent of the instructor; 343x-4x may be taken parallel. The modern theories of chemistry and the methods of physico-chemical measurements.
- 443x-4x. *Industrial Chemistry*. Cr. 4 (3-3). Sems. I and II. (Formerly 312-3-4 and 321-2-3). Prerequisite: Chem. 331x-2x and 343x-4x. An historical development of the application of chemistry to modern industry. Laboratory work not correlated with class. The practical testing of industrial materials.
- 531x-2x. *Thesis Course*. Cr. 3 (0-9). Sems. I and II. Prerequisite: Consent of the instructor and graduate standing. Research in analytical, industrial, inorganic, organic, and physical chemistry.

COURSES FOR GRADUATES

Chemistry 411x-2x, 421x, 422x, 423x, 430x, 434x, 441x-2x, and 531x-2x when taken by graduate students may be counted for graduate credit.

DEPARTMENT OF ECONOMICS AND BUSINESS ADMINISTRATION

Professor Condray. Acting Professor Plank. Associate Professor Nissley. Assistant Professor Root. Instructor Wolffarth.

Our modern social and economic life presents a situation wherein every person needs a fundamental knowledge of the principles of economics. Every citizen will be influenced by economic laws and economic forces throughout his life. In a democracy the necessity of this knowledge is especially evident since every adult has a right to vote and may, therefore, assist in molding the thought of the people and the legislation in state legislatures and in Congress to work out the economic problems of our times.

Industrial life in America in modern times has become highly organized. Every technical man, whether he be an agriculturist, an engineer, a banker, a merchant, or a government employee, should have at his command an adequate knowledge of the basic principles of business and be able ultimately to assume administrative and executive positions in his chosen profession when he has acquired the necessary experience.

The Department of Economics and Business Administration furnishes fundamental training in economics for all students in all divisions of the college. In addition to this fundamental training, it presents courses which will enable the student who is interested in economics to perfect his training in that field by taking a major in Economics with more advanced work than is undertaken by students whose majors are in other divisions or departments of the college.

This department also furnishes opportunity for students in any division of the college to obtain training in Business Administration as a part of their preparation in Engineering, in Agriculture, or in any other major work within the college. The department also presents courses leading to the degree of Bachelor of Business Administration as training for those who intend to go into banking, insurance, real estate, investments, merchandising, or any other lines of activity in the field of business, commerce, transportation, or finance.

Students who wish to receive the degree of Bachelor of Business Administration must meet special requirements for that degree. These are shown in the curriculum at the beginning of *Division of Arts and Sciences*.

Students desiring to major in Economics and receive the degree of Bachelor of Arts or of Bachelor of Science may do so by fulfilling the requirements for the degrees named with at least thirty-

six semester hours in Economics, or Economics and certain specified courses in Business Administration. Economics 231x-2x and Economics 233x-4x are required of all students majoring in Economics.

ECONOMICS

- 231x-2x. *Principles of Economics*. Cr. 3 (3-0). Each, Sems. I and II. (Formerly 231-2-3). Prerequisite: Sophomore standing. Modern economic society and modern economic problems. Forms of business organizations. Prices, money, banking, transportation, taxation, interest, rent, profits, labor problems. Proposed economic reform.
- 233x. *Economic Development of Europe*. Cr. 3 (3-0). Sem. I. Prerequisite: Sophomore standing. Economic development of Europe after the fall of the Roman Empire. Changes brought about by invention, development of new markets, trade routes, and the evolution of the financial organization of society.
- 234x. *Economic Development of the United States*. Cr. 3 (3-0). Sem. II. Prerequisite: Sophomore standing. Economic development in the United States from colonial times to the present. The exploitation of natural resources, the influence of slavery, problems of immigration, and the development of capitalistic industry.
- 332x. *Money and Banking*. Cr. 3 (3-0). Sem. I. (Formerly 3313-14-15). Prerequisite: Eco. 231x-2x. History and principles of money and banking. Existing monetary and banking systems. Problems of the standard. Foreign Exchange. Federal Reserve System, state banks. Recent emergency monetary and banking legislation.
- 332x. *Public Utility Economics*. Cr. 3 (3-0). Sem. I Prerequisite: Eco. 231x-2x. Principles and problems of public utilities. Financing, ownership, and public relations. The holding company and municipal competition. Valuations, rates, and regulation.
- 333x. *Public Finance*. Cr. 3 (3-0). Sem. II. (Formerly 430). Prerequisite: Eco. 231x-2x. Municipal, state, and federal finance. Principles and practices of taxation. Budgetary control and governmental expenditures. Public borrowing and administration.
- 431x. *Transportation*. Cr. 3 (3-0). Sem. I. (Formerly 433-434). Prerequisite: Eco. 231x-2x. The development of the transportation system: rivers, canals, toll-roads, railroads, highways, air. Governmental regulation of transportation agencies. Competitive practices, rate making, valuations, financing, consolidations. Present tendencies.

- 432x. *Labor and Labor Problems*. Cr. 3 (3-0). Sem. I. Prerequisite: Eco. 231x-2x. The main forces which have created modern labor legislation. Wages, hours of work, working conditions, unemployment, pension plans. Arbitration and social and industrial insurance.
- 433x. *International Economic Problems and Foreign Trade*. Cr. 3 (3-0). Sem. II. Prerequisite: Eco. 231x-2x. Comparison of domestic and international economic relations. Political obstacles to international trade. The tariff and commercial treaties. International monetary problems. Financing foreign trade. Foreign loans.
- 434x. *Price and Distribution Theory*. Cr. 3 (3-0). Sem. I. Prerequisite: Eco. 231x-2x. The economic theories underlying value and distribution. The present distribution of wealth. The orthodox theory of distribution.
- 435x. *Economic Cycles and Forecasts*. Cr. 3 (3-0). Sem. II. Prerequisite: Eco. 231x-2x. Economic theories of cycles. Their causes and proposed remedies. An examination of forecasting services available and technique employed by them. Problems in specific commodities and securities.
- 436x. *Economic Theory: Development and Present Status*. Cr. 3 (3-0). Sem. II. Prerequisite: Eco. 231x-2x. The evolution of economic thought. The leading schools of economic thought. The problems of unregulated competition and monopolies as they influence social welfare.

BUSINESS ADMINISTRATION

Secretarial Courses

- 211x. *Elementary Typewriting*. Cr. 1 (0-5). Sem. I. (Formerly 3140 and $\frac{1}{2}$ of 3141). A beginners' course in typewriting covering a general knowledge of the care and operation of a typewriter, copy work, dictation, letter writing, and forms. Required of all Business Administration students. Typewriter rental, \$6.00.
- 221x. *Advanced Typewriting*. Cr. 2. (0-5). Sem. II. (Formerly $\frac{1}{2}$ of 3141 and 3142). Advanced copy work and dictation. Preparation of stencils. Business forms. May not be used as part of major-subject requirements for the Bachelor of Business Administration degree but may be taken as an elective. Typewriter rental, \$6.00.
- 222x. *Elementary Shorthand*. Cr. 2 (0-2). (Formerly 3243 and $\frac{1}{2}$ of 3244). A beginners' course covering the penmanship of shorthand, elementary phrase and sentence writing, simple transcription and writing of business letters.

- 223x. *Advanced Shorthand*. Cr. 2 (0-5). Sem. II. (Formerly $\frac{1}{2}$ of 3244 and 3245). Prerequisite : B. A. 222x. Advanced dictation, transcription, letter writing. Outside preparation required.

BUSINESS ADMINISTRATION PRINCIPLES

- 234x-5x. *Introduction to Accounting*. Cr. 3 (2-2). Sems. I and II. (Formerly 234-5-6). Prerequisite: Sophomore standing. Introduction to bookkeeping and accounting, covering principles of accounting, financial statements, and systems for the sole proprietorship, and partnership. Corporation problems and interpretation of statements.

- 330x. *Introduction to Finance*. Cr. 3 (3-0). Sem. I. (Formerly 337-8-9). Prerequisite: Eco. 231x-2x. Principles of finance as applied to launching, organizing, and administering the average business enterprise. Financial aspects of credit extension, selling, and purchasing. Financial characteristics of the proprietorship, the partnership, and the corporation. Relation of finance to seasonal and cyclical trends.*

- 331x. *Corporation Finance*. Cr. 3 (3-0). Sem. II (Formerly 439). Prerequisite: Eco. 231x-2x. Financial problems connected with promotion, underwriting, and sale of corporation securities. Problems of administration, budgeting, expansion, combination, and reorganization of corporations. Financial coordination of departments within the corporation.*

- 332x. *Principles of Marketing*. Cr. 3 (3-0). Sem. I. (Formerly 3310 and $\frac{1}{2}$ of 3311). Prerequisite: Eco. 231x-2x. Marketing structures and agencies. Types of middlemen and retail institutions. Current marketing practices. Distribution of raw materials and finished products.*

- 333x. *Marketing Problems*. Cr. 3 (3-0). Sem. II. (Formerly $\frac{1}{2}$ of 3311 and 3312). Prerequisite: Eco. 231x-2x. Actual marketing cases. Materials covering consumers' buying habits, department store operation, cooperative buying, direct selling, control of sales force.*

- 334x-5x. *Business Law*. Cr. 3 (3-0). Sems. I and II. (Formerly 334-5-6). Prerequisite: Eco. 231x-2x. The ordinary rules of business law. The development of our legal system. The law of persons, torts, contract, agency, private property, sales, negotiable instruments, insurance, labor, partnerships, and corporations.*

*May be used toward major requirements for Bachelor of Arts degree with major in Economics.

- 336x. *Industrial Management*. Cr. 3 (3-0). Sem. I. (Formerly 3321-22). Prerequisite: Eco. 231x-2x. Production management from the managerial or executive standpoint. Plant location, purchasing, budgetary control.
- 337x-8x. *Advanced Accounting*. Cr. 3 (2-2). Sems. I and II. (Formerly 3316-17-18). Prerequisite: B. A. 234x-5x. Advanced principles of accounting. Problems peculiar to partnership and corporation. Accounting for insolvent concerns. Joint ventures, depreciation. Consolidated statements.
- 431x. *Office Management*. Cr. 3 (3-0). Sem. II. (Formerly 3341). Prerequisite: Eco. 231x-2x. Standards of office practice, wage payment plans, equipment and its selection. For those interested in secretarial practice and in field of management.
- 432x. *Advertising*. Cr. 3 (3-0). Sem. I. Prerequisite: Eco. 231x-2x. Advertising elements such as copy, layout, media, topography. Problems applied to the principles of advertising.
- 433x. *Personnel Administration*. Cr. 3 (3-0). Sem. II. (Formerly 4210-11). Prerequisite: The training of employees, wage systems, workmen's compensation laws, collective bargaining, trade agreements.
- 434x. *Investments*. Cr. 3 (3-0). Sem. I. (Formerly 438). Prerequisite: Eco. 231x-2x. Principles of the true investment. Forms and types of investment. Relation to speculation. Influence of taxation. Analyses of actual investment securities. Classes of investors and diversification.
- 435x. *Business Policy*. Cr. 3 (3-0). Sem. II. Prerequisite: Eco. 231x-2x. Business problems that have confronted leaders in trade and industry, and facts and circumstances on which they have based their decisions. Application to actual problems of principles of industrial activity, marketing, economics, statistics, and finance. A coordination course of the specialized courses to suggest solutions of problems affecting the general policy of an operating company. Problems will be presented by business men and various members of the faculty.
- 436x. *Cost Accounting*. Cr. 3 (3-0). Sem. I. (Formerly 4213-14-15). Prerequisite: B. A. 234x-5x. Records and reports for the cost department. Methods of allocation of overhead costs. Records and principles handling material, labor, and indirect costs.
- 437x. *Auditing*. Cr. 3 (3-0). Sem. II. (Formerly 4333-34-35). Prerequisite: B. A. 234x-5x. Auditing procedure, classification of audits and investigations. Methods of verification of financial statements. Advanced auditing and accounting problems and principles.

Courses in this department which may be taken for graduate credit are: Eco. 331x, 332x, 333x, 431x, 432x, 433x, 434x, 435x; B. A. 334x-5x, 336x, 337x-8x, 431x, 432x, 433x, 434x, 435x, 436x, 437x.

DEPARTMENT OF EDUCATION AND PSYCHOLOGY

Professors Evans, Garlin, Barnett. Associate Professors

Dysart, Shaver.

The Department of Education and Psychology furnishes the professional training in Education necessary for the training of teachers. No person can be a good teacher without a thorough knowledge of the subject matter which he intends to teach. All students who are preparing to be teachers, therefore, should take full courses in subject matter as a part of their preparation to be teachers and school administrators.

The function of this department is primarily to furnish the professional training in methods, preparation of materials, classroom management, the fundamentals of administration and supervision, and other professional courses necessary for the adequate preparation of teachers.

Each course in Education and Psychology counts as an independent course and may be taken by students majoring in other divisions or departments who desire to prepare themselves as teachers, or to satisfy degree requirements.

Courses taken in Texas Technological College may be used to satisfy requirements for teachers' certificates valid in Texas and in other states. Students desiring to teach in other states should consult the Head of the Department concerning certificate requirements in these states. Teachers' certificates are secured by compliance with the State school laws. Persons desiring to secure certificates must meet all legal requirements.

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 (6 semester hours) in English, and 108 hours (6 semester 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 (12 semester 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 Bachelor of Arts 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 Bachelor of Arts degree or its equivalent, two courses in Education, and three years of 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 six semester hours, in 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 of

Education concerning the special requirements for securing these certificates.

Students who are registered in the Divisions of Agriculture, Home Economics, or Engineering may, by arrangement between the Dean of the Division and the Head of the Department of Education, take sufficient courses in Education and Psychology to meet the requirements for a State Certificate, and thus may take their degree in the Division in which they are registered and also qualify themselves to teach general agriculture, home economics, shop work, industrial training, or combinations of these and other high school subjects when they are able to meet the requirements of the State Department of Education.

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 requires courses in Government covering the Federal and Texas constitutions. Government 320x will satisfy the minimum requirement for the teachers' certificate.

Scholarship, as shown by the grades of the student, will be given great weight in recommending students for certificates or teaching positions.

LONG SESSION EDUCATION COURSES

Courses offered in the Long Session. Offered also in the Summer Session on demand.

NOTE: The Summer Session courses are listed immediately following the Long Session Psychology courses.

- 131x. *Introduction to Education*. Cr. 3 (3-0). Sem. I and Sem. II. (Formerly 131). Brief survey of the general field of education with particular reference to the origin and development of present day practices in the public schools.
- 132x. *Classroom Management and Methods*. Cr. 3 (3-0). Sem. I and Sem. II. (Formerly 132 and 133). Fundamental principles of classroom management and their application in the school room; methods of learning involved in the various school subjects, and corresponding methods of teaching. Elementary skills and how they may be acquired in the classroom.
- 231x. *Educational Psychology*. See *Psychology* 231x.
- 232x. *History of Education*. Cr. 3 (3-0). Sem. II. (Formerly 232). Prerequisite: Sophomore standing. Educational ideals,

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

- 233x. *School Health and Hygiene*. Cr. 3 (3-0). Sem. II (Formerly 2311). Prerequisite: Sophomore standing. The organization and administration of school health programs with special emphasis on the public health aspects of school hygiene and er. The principles and methods of preventive mental hygiene. er. The principles and methods of preventive mental, hygiene. Given in alternate years; given in 1934-35.
- 234x. *Principles of Secondary Education*. Cr. 3 (3-0). Sem. I and Sem. II. (Formerly 234). Prerequisite: Sophomore standing. Basic principles underlying secondary education including the high school as a social institution, and the physical and mental characteristics of the secondary pupil.
- 235x. *High School Methods*. Cr. 3 (3-0). Sem. I and Sem. II. (Formerly 236). Prerequisite: Sophomore standing. Economy in classroom procedure; selection and arrangement of subject matter; lesson planning; adapting classroom instruction to individual differences; directing study; laboratory methods; technique of socialized procedure; quizzes, examinations, marking.
- 236x. *Kindergarten-Primary Education*. Cr. 3 (3-0). Sem. I. (Formerly 237). Prerequisite: Sophomore standing. The organization, methods, and materials of the kindergarten and primary grades. The social studies and primary skills, arithmetic, writing and spelling.
- 237x. *English in the Primary Grades*. Cr. 3 (3-0). Sem. II. (Formerly 2372). Prerequisite: Sophomore standing. A continuation of Ed. 236x with emphasis on language, reading, and literature in the first three grades.
- 331x. *Principles of Education*. Cr. 3 (3-0). Sem. I. (Formerly 331). 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.
- 333x. *Observation and Practice*. Cr. 3 (3-0). Sem. I and Sem. II. (Formerly 333). Prerequisite: Junior standing in Education. Principles of teaching, observation of class work, construction of lesson plans, and teaching under supervision in the Lubbock public schools.
- 337x. *Classroom Tests*. Cr. 3 (3-0). Sem. I. (Formerly 337). Prerequisite: Junior standing in Education. Advanced methods in 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.

- 338x. *Every Teachers' Problems*. Cr. 3 (3-0). (Formerly 338). Prerequisite: Junior standing in Education. An enumeration and discussion of the problems that confront the teacher in the school room, and guiding principles for their solution. Individual and social as well as professional problems common to present-day teachers. Given in alternate years; not given in 1934-35.
- 339x. *Character Education*. Cr. 3 (3-0). Sem. II. (Formerly 339). 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 for rendering the pupils more competent to discharge their social obligations.
- 3311x. *The Primary Curriculum*. Cr. 3 (3-0). Sem. I. (Formerly 3311 and 3312). Prerequisite: Ed. 236x and 237x or their equivalent. Specific aims, objectives, activities, and methods incorporated in the curriculum for the first three grades. Working out of principles of selection and organization, examination of present-day courses of study, and planning of activity programs.
- 3313x. *Economic and Social Background of the Rural High School*. Cr. 3 (3-0). Sem. I. Types of rural communities as related to educational facilities; centralizing influences in American industry and effect on the rural high school; relation of rural high school support to certain economic farm factors; relation of the rural high school to other rural social institutions; forces modifying rural individualism and probable effects on rural education; a new type of high school as a socially constructive force in the rural community.
- 430x. *Sociological Principles of Education*. Cr. 3 (3-0). (Formerly 430). 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. Given in alternate years; given in 1934-35.
- 431x. *Education in the United States*. Cr. 3 (3-0). Sem. I. (Formerly 434). Prerequisite: Senior standing and Ed. 232x. Educational history, theory, and practice in the United States; the origin and development of public elementary and secondary education.
- 432x. *Public School Administration*. Cr. 3 (3-0). Sem. II. (Formerly 436). Prerequisite: Senior standing or consent of instructor. Problems that confront the superintendent or principal, such as classification and grading, arranging courses of study, selec-

tion and improvement of the teaching staff, relations with teachers, school board and general public.

433x. *School Publicity*. Cr. 3 (3-0). Sem. II. (Formerly 437). 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.

434x. *The Supervision of Instruction*. Cr. 3 (3-0). Sem. I. (Formerly 438). 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.

538x. *Problems in Education*. Cr. 3 (3-0). (Formerly 538). Prerequisite: Graduate standing in Education. An enumeration and analysis of certain problems that confront the teacher as a member of the teaching profession. Given in alternate years; not given in 1934-35.

LONG SESSION PSYCHOLOGY COURSES

Courses offered in the Long Session. Offered also in the Summer Session on demand.

NOTE: The Summer Session courses are listed immediately following the Long Session Psychology courses.

230x. *Introduction to Psychology*. Cr. 3 (3-0). Sem. I and Sem. II. (Formerly 230). Prerequisite: Sophomore standing. Introduction to the study of mental processes. Lectures, recitations, and demonstrations illustrating the principles of general psychology.

231x. *Educational Psychology*. Cr. 3 (3-0). Sem. I. (Formerly Ed. 231). 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.

331x. *Child Psychology*. Cr. 3 (3-0). Sem. II. Prerequisite: Three hours in Psychology and junior standing. The psychology of childhood from infancy to early adolescence. The general nature, growth, and development of the child, emotionally, mentally, and socially.

- 333x. *Measurements in Education*. Cr. 3 (3-0). Sem. I. (Formerly Ed. 3313). Prerequisite: Junior standing in Education. The instruments and technique of measuring the results of instruction. Tests, tabulation and established treatments of scores, interpolation, description, and uses of results for improving instruction.
- 337x. *General Psychology*. Cr. 3 (3-0). Sem. II. (Formerly 232 or 232x). Prerequisite: Psy. 230x or its equivalent. Continuation of Psy. 230x. Problems, principles, and methods of psychology. Facts and theories current in general psychological discussion.
- 338x. *Business Psychology*. Cr. 3 (3-0). Sem. II. (Formerly 236 or 233x). Prerequisite: Three hours of Psychology. Psychology applied to advertising, salesmanship, employment, and industry. Given in alternate years; given in 1934-35.
- 431x. *Mental Tests*. Cr. 3 (3-0). Sem. II. (Formerly Ed. 3310 or 334x). Prerequisite: Psy. 333x. The principles, application and technique of the various types of mental tests. Emphasis given to the theory of mental tests and to the application of such tests to the fields of education, business and the professions.
- 432x. *Contemporary Psychologies*. Cr. 3 (3-0). (Formerly 336x). Prerequisite: Six hours of Psychology. The outstanding schools of psychology at the present time, their similarities and differences. Lectures supplemented by readings, reports, and discussions. Given in alternate years; not given in 1934-35.

SUMMER SESSION EDUCATION COURSES

Education courses offered in the Summer Session only. Such of the Long Session courses as are demanded may also be offered in the Summer Session.

- 123x. *Methods in Elementary English*. Cr. 2 (2-0). S. (Formerly 138 or 133x). Modern methods of teaching English fundamentals, both oral and written. Offered in Summer Session only.
- 125x. *Penmanship*. Cr. 2 (2-0). S. Basic. For teachers of penmanship in the elementary grades. Offered in Summer Session only.
- 127x. *Art*. Cr. 2 (2-0). S. The fundamentals of teaching drawing in the elementary grades of the public schools. Offered in Summer Session only.
- 221x. *Social Activities in the Primary Grades*. Cr. 2 (2-0). S. Prerequisite: Sophomore standing in Education. The selection, organization, and evaluation of social activities. Procedure and

- its relation to the mastery of the tool subjects. Offered in Summer Session only.
- 223x. *School Health and Hygiene*. Cr. 2 (2-0). S. (Formerly 2311 or 233x). Prerequisite: Sophomore standing. Development of the school health program; some of the facts and principles of child growth and of the principles and methods of preventive mental hygiene; organization and administration of school health programs. Offered in Summer Session only.
- 226x. *The Primary Skills: Arithmetic, Spelling and Writing*. Cr. 2 (2-0). S. (Formerly 237). Prerequisite: Sophomore standing. A methods course similar to Ed. 236x, but which omits all discussions except those dealing specifically with the teaching of the tool subjects, arithmetic, spelling, and writing. Offered in Summer Session only.
- 227x. *Reading in the Elementary Grades*. Cr. 2 (2-0). S. (Formerly 2372). Prerequisite: Sophomore standing. Modern methods of teaching reading in the primary and upper grades. Offered in Summer Session only.
- 229x. *Rural Education*. Cr. 2 (2-0). S. The function of the rural school; the status of the rural school as to teachers, curriculum, buildings and equipment, enrollment and attendance, administration and supervision, and financial support; some proposed reforms in certain phases of rural education. Offered in Summer Session only.
- 320x. *The Principal and His School*. Cr. 2 (2-0). S. (Formerly 330). Prerequisite: Junior standing in Education. Basic. The organization and operation of a school building unit, dealing with the varied duties of the principal in administering a school. Offered in Summer Session only.
- 323x. *Observation and Practice Teaching*. Cr. 2 (2-0). S. (Formerly 333). Prerequisite: Junior standing in Education. Principles of teaching, observation of class work, lesson plans. Similar to Ed. 333x with reduced time for observation and practice teaching. Offered in Summer Session only.
- 326x. *Educational and Vocational Guidance*. Cr. 2 (2-0). S. (Formerly 336 or 336x). Prerequisite: Junior standing in Education. For superintendents, principals, and teachers who feel the 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. Offered in Summer Session only.
- 3210x. *Literature in the Primary Grades*. Cr. 2 (2-0) S. (Formerly 238 or 238x). Prerequisite: Sophomore standing in Education. The literature, both poetry and prose, for children of

various ages, involving actual practice in judging, evaluating, selecting, and telling stories for children. Offered in Summer Session only.

3211x. *The Curriculum for the First Three Grades*. Cr. 2 (2-0). S. Prerequisite: Ed. 236x and 237x or their equivalent. An abridgement of Ed. 3311x, including only the problems, aims, objectives, activities, and methods incorporated in the curriculum of the first three grades. Offered in Summer Session only.

3212x. *A General Science Survey Course for Teachers*. Cr. 2 (2-0). S. Prerequisite: Junior standing or teaching experience in general science. A non-laboratory course for teachers of high school general science. Lecturers as follows: Biology, Dr. E. L. Reed; Human Physiology, Dr. Bessie League; Chemistry, Dr. R. C. Goodwin; Geology, Dr. Raymond Sidwell; Physics, Dr. E. F. George; Psychology, Miss Bonnie K. Dysart. Offered in Summer Session only.

332x. *High School Problems*. Cr. 3 (3-0). S. (Formerly 332). 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. Offered in Summer Session only.

421x. *Education in the United States*. Cr. 2 (2-0). S. (Formerly 434). Prerequisite: Senior standing in Education. The origin and development of public elementary and secondary education. Similar to 431x with less collateral readings. Offered in Summer Session only.

423x. *School Publicity*. Cr. 2 (2-0). S. (Formerly 437). Prerequisite: Junior or senior standing in Education. The aims and underlying principles of school publicity, organization of publicity, media of approach to the public, and appraisal of publicity program. Similar to 433x except that less extensive treatment is given to topics covered. Offered in Summer Session only.

424x. *The Supervision of Instruction*. Cr. 2 (2-0). S. (Formerly 438). Prerequisite: Junior or senior standing in Education. Designed to give prospective principals, superintendents, supervisors, and teachers an understanding of the organization and technique of supervision. Similar to 434x except that less intensive treatment is given to topics covered. Offered in Summer Session only.

425x. *Extra-Curricular Activities*. Cr. 2 (2-0). S. Prerequisite: Junior standing in Education. Objectives and values of extra-curricular activities. Classification of activities and participation of pupils; faculty sponsors and school control. Offered in Summer Session only.

- 426x. *The Curriculum*. Cr. 2 (2-0). S. (Formerly 435). Prerequisite: Senior standing or consent of instructor. Curriculum reconstruction in the light of recent investigations; the fundamental bases of the curriculum; the relation of curricular and extra-curricular activities. Offered in Summer Session only.
- 526x. *Guidance Problems*. Cr. 2 (2-0). S. (Formerly 536 or 536x). Prerequisite: Graduate standing in Education. An extension of Ed. 326x with an opportunity to work out specific problems in guidance. Offered in Summer Session only.
- 530x. *Research*. Cr. 3 (3-0). S. (Formerly 530). Prerequisite: Graduate standing Education. Investigation of special problems in education selected in conference with the instructor. Offered in Summer Session only.
- 532x. *Problems in Secondary Education*. Cr. 3 (3-0). S. (Formerly 532). Prerequisite: Graduate standing in Education. An extension of Ed. 332x with opportunity for continuing the investigation of specific problems in the different phases of modern secondary education. Offered in Summer Session only.
- 537x. *The Technique of Classroom Tests*. Cr. 3 (3-0). S. (Formerly 537). Prerequisite: Graduate standing in Education. Methods in traditional examinations and objectives tests; the theory of the construction of tests. How to score; the treatment of scores. The interpretation and use of tests. Offered in Summer Session only.
- 539x. *Character and Moral Education*. Cr. 3 (3-0). S. (Formerly 534). Prerequisite: Graduate standing in Education. An extension of Ed. 339x. Case study technique employed.

SUMMER SESSION PSYCHOLOGY COURSES

Psychology courses offered in the Summer Session only. Such of the Long Session courses as are demanded may also be offered in the Summer Session.

- 321x. *Child Psychology*. Cr. 2 (2-0). S. Prerequisite: Three hours in Psychology and junior standing. An abridgement of Psy. 331x which deals particularly with the primary-kindergarten child. Offered in Summer Session only.
- 323x. *Measurements in Education*. Cr. 2 (2-0). S. Prerequisite: Junior standing in Education. The place of measurement in the teaching process; the development of standardized tests; the measurement of results in the teaching of the various school subjects; statistical methods in treating educational data. Offered in Summer Session only.

- 332x. *Advanced Educational Psychology*. Cr. 3 (3-0). S. (Formerly 332). Prerequisite: Psy. 231x or its equivalent, and junior standing. The psychological processes in detail 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. Offered in Summer Session only.
- 335x. *The Psychology of Adolescence*. Cr. 3 (3-0). S. (Formerly 335). Prerequisite: Three 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 deal with boys and girls of high school age. Offered in Summer Session only.

The following courses in this department which may be taken for graduate credit are: Ed. 331x, 3311x, 426x, 430x, 431x, 432x, 433x, 434x, 526x, 530x, 532x, 537x, 538x, 539x; Psy. 331x, 332x, 333x, 335x, 431x, 432x.

DEPARTMENT OF ENGLISH

Professors Carter, Doak, Mills, Smallwood. Associate Professors Cunningham, Fowler, Gates, McGee, Strout. Assistant Professors Allen, Horne, Knickerbocker, Murphy. Instructors Allen, Crain, Gill, Horn, Teague.

The courses in elementary composition (required of all students) are designed to afford the necessary practice and training in writing for students in the four major divisions of the College: Agriculture, Arts and Sciences, Engineering, and Home Economics. Advanced courses in literature and in languages are available for those students who wish to provide themselves with broader background, to continue with graduate study, or to teach English.

Elementary composition (English 131x-2x), without itself becoming specialized, gives training indispensable for specialized or professional writing. By means of readings, lectures, tests, and themes it trains toward clear thinking, correct and effective language, and correct manuscript. The advanced courses in writing (3311x, 530x, and 3312x) afford the student a rather detailed view of the structure and form of approved usage, together with an opportunity for much individual practice in writing letters, articles, stories, and reports.

English 231x-2x (Introduction to the Study of Literature) is required of all sophomore students in the Divisions of Arts and Sciences and Home Economics. A special course (English 233x)

is required of sophomore Engineering students; this course combines a study of several masterpieces of English literature and considerable practice in technical writing. In the Division of Agriculture, English 234x (required of sophomores) offers abundant practice in composition on subjects related to the special interest of students in Agriculture.

Advanced courses required for an English major include the History of the English Language, Chaucer, and Shakespeare (332x, 330x, and 432x); one course in Spenser, Milton, Romanticism, or English Poets of the Nineteenth Century; and four closely related courses largely within one of these fields: language, drama, fiction, and American literature.

Each student following an English major is strongly urged to pursue work in a foreign language and literature. Other subjects which may be effectively correlated with an English major are Speech, History, and Journalism.

PROGRAM OF GRADUATE STUDY

The following courses are prescribed as fundamental in a program of graduate English: Old English, Beowulf, Chaucer (331x), Shakespeare Criticism, Romanticism (436x), Outline of American Literary History, Outline of English Literary History (two semesters).

Approved undergraduate courses may be substituted, upon the advice of the head of the department, for certain of the prescribed courses.

ENGLISH

131x-2x. *Freshman Composition*. Cr. 3 (3-0). Each, Sems. I and II. (Formerly 131-2-3). Prerequisite for all other courses in English. Essentials of correctness and effectiveness in general writing. Text studies, lectures, readings, tests, themes.

231x-2x. *Introduction to Literature*. Cr. 3 (3-0). Each, Sems. I and II. (Formerly 231-2-3). Prerequisite for all English courses above sophomore level. Lectures, readings, themes, and quizzes. The masterpieces of English and American literature. In the first semester the drama and the novel; in the second, the short story and poetry.

233x. *Technical Writing*. Cr. 3 (3-0). Sem. I and Sem. II (Formerly 2310-11-12). Required of sophomore Engineering students. Weekly themes, with considerable reading in standard English literature.

- 234x. *Special Work on Correct Usage*. Cr. 3 (3-0). Sem. I and Sem. II. (Formerly 2313-14). Required of sophomores in the Division of Agriculture. Themes, reports, and much practical experience in writing.

Statement of Prerequisites

The foundation courses of the first two years (English 131x-2x and English 231x-2x or their equivalents) are the general prerequisites to the courses which follow.

All courses except those indicated as not given in 1934-35, or taught in the Summer Session only, may be offered either semester.

- 330x. *Chaucer*. Cr. 3 (3-0). (Formerly 330). 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*. Not given in 1934-35.
- 331x. *Chaucer: The Longer Poems*. Cr. 3 (3-0). (Formerly 550). The theme, sources, and language of Chaucer's *Troilus*.
- 332x. *History of the English Language*. Cr. 3 (3-0). (Formerly 332). 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*; Fowler, *A Dictionary of Modern English Usage*.
- 334x. *American Drama: From the Beginning to 1865*. Cr. 3 (3-0). (Formerly 334). Amateur performances of the frontier, professional companies, geographical expansion of the theater, native playwrights and plays, with emphasis on American scene and theme.
- 335x. *American Drama: 1865 to the Present*. Cr. 3 (3-0). (Formerly 335). Dominance of theatrical centers, rise of the star system, stage movements, community organizations, individual playwrights, and specific tendencies in dramatic composition.
- 336x. *The Augustan Age*. Cr. 3 (3-0). (Formerly 4392). Dryden and Pope. The poetry of Gay, Swift, Defoe, Ambrose Phillips, Nicholas Rowe, Parnell, Prior, Tickell, and others. Lectures, class discussions, and written reports.
- 337x. *Grammar for Speech*. Cr. 3 (3-0). (Formerly 337). Inflectional forms, sentence structure, and principles of English grammar that may be useful in other languages. Text: Kittredge and Farley, *Advanced English Grammar*.

- 338x. *American Poetry: Bradstreet to Whitman*. Cr. 3 (3-0). (Formerly 338 and 339). Interpretation of the most representative poems, classification as to type and theme, distinguishing quality and style of the individual writer, drill in forms, metrics, and figures. Text: Page, *Chief American Poets*.
- 339x. *American Poetry: Emily Dickinson to the Present*. Cr. 3 (3-0). (Formerly 3390). Trends, movements, and individual influences. The best poems of significant writers analyzed and appraised. Text: Untermeyer, *Modern American Poetry*.
- 3310x. *The Teaching of English in the High School*. Cr. 3 (3-0). S. (Formerly 3310). Prerequisite: Eng. 231x-2x and junior standing in Education. Effective methods; problems commonly found in the teaching of English in the high school. Class-room practice and demonstration. Text: Thomas, *The Teaching of English in the Secondary School*.
- 3311x. *English in Business Practice*. Cr. 3 (3-0). (Formerly 3311). Principles of English composition embodied in the best business practice. Text: Babenroth, *Modern Business English*.
- 3312x. *Advanced Composition*. Cr. 3 (3-0). (Formerly 3371). Prerequisite: Credit for freshman English with a grade as high as B, and for sophomore English. A study for forcefulness and grace as well as for correctness. Each student chooses his kind of composition, and may do for this course papers to be submitted in other courses.
- 3313x. *Contemporary English Poetry*. Cr. 3 (3-0). (Formerly 3391). Masfield, Dowson, Flecker, Brooke. Hardy, and others.
- 430x. *Elizabethan Drama*. Cr. 3 (3-0). (Formerly 430). The plays of Dekker, Heywood, Chapman, Jonson, Middleton, Marston, Beaumont and Fletcher, Webster, Massinger, Ford and Shirley in relation to the literary fashions of the period. Text: Schelling, *Typical Elizabethan Plays*.
- 431x. *Restoration and Eighteenth Century Drama*. (Formerly 431). Representative plays. Dryden, Otway, Congreve, Farquhar, Goldsmith, and Sheridan. Sentimental comedy, bourgeois tragedy, comedy of manner, ballad opera, and other dramatic types. Text: Stevens, *Types of English Drama*.
- 432x. *Shakespeare and the Background*. Cr. 3 (3-0). (Formerly 432). A close reading of several representative plays written before 1600: *Richard III*, *Romeo and Juliet*, *Much Ado About Nothing*, *Twelfth Night*. Text: Craig, *Shakespeare*.
- 433x. *Shakespeare Criticism*. Cr. 3 (3-0). (Formerly 433). A review of the more substantial contributions in Shakespeare criti-

- cism from Jonson to Chambers, together with the reading of *Julius Caesar*, *Measure for Measure*, *Hamlet*, *Othello*, and *Cymbeline*. Text: D. Nichol Smith, *Shakespeare Criticism*.
- 434x. *Milton*. Cr. 3 (3-0). (Formerly 434). Milton's prose and poetry; the sources, structure and metrical characteristics of *Paradise Lost*, and its place in English poetry. Text: Moody, *Milton's Complete Poems*.
- 435x. *English Romanticism*. Cr. 3 (3-0). (Formerly 435). Pre-Romantic literature; the poetry and poetic principles of Wordsworth and Coleridge. Text: Woods, *English Poetry and Prose of the Romantic Movement*.
- 436x. *English Romanticism*. Cr. 3 (3-0). (Formerly 436). The poetry of Scott, Shelley, Keats, and Byron; biography and background. Text: Woods, *English Poetry and Prose of the Romantic Movement*.
- 437x. *Pre-Shakespearean Drama*. Cr. 3 (3-0). (Formerly 437). The development of comedy, tragedy, and chronicle history from early types of drama in England. The plays of Lyly, Peele, Greene, Kyd, and Marlowe. Text: Manly, *Pre-Shakespearean Drama*. Not given in 1934-35.
- 438x. *Nineteenth Century English Prose*. Cr. 3 (3-0). (Formerly 438). 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*.
- 439x. *Contemporary Drama: Ibsen to Shaw*. Cr. 3 (3-0) (Formerly 439). The dramatic work of Ibsen, Strindberg, Tolstoy, Chekhov, Hauptman, Wedekind, Becque, Hervieu, Maeterlinck, Galsworthy, Barrie, and Shaw.
- 4310x. *English Poets of the Nineteenth Century*. Cr. 3 (3-0). (Formerly 4391). Extensive reading in the poetry of Tennyson, Browning, E. B. Browning, and Matthew Arnold. Class discussions supplemented by lectures and by student reports.
- 4311x. *English Poets of the Nineteenth Century*. Cr. 3 (3-0). (Formerly 4390). Continuation of Eng. 4310x. Eng. 4310x not a prerequisite. Selected reading from the poetry of D. G. Rossetti, Christina Rossetti, William Morris, Swinburne, Meredith, and a large group of minor poets down to Thomas Hardy. Lectures, class discussions, and written reports.
- 4312x. *The Age of Johnson: Johnson and His Circle*. Cr. 3 (3-0). (Formerly 4393). English literature from 1740 to 1798, exclusive of the novel. An introduction to Dr. Johnson, Boswell, Goldsmith, Burke, and their circle. Pre-romanticists.

- 4313x. *Literary Biography*. Cr. 3 (3-0). (Formerly 4394). The biographical works of Cellini, Pepys, Boswell, Franklin, Strachey, and Bradford, as they reflect the social and political conditions, the art, the science, and the literature of their times. Text: Metcalf, *The Stream of English Biography*.
- 530x. *The Contemporary Short Story*. Cr. 3 (3-0). (Formerly 530). Short stories by Cobb, Conrad, Dreiser, Galsworthy, Mansfield, Steele, Dobie, Walpole, Wells, Tarkington, and others. The short story from a structural point of view, with special attention to students who desire practice in writing the form. Text: Robinson, *Contemporary Short Story*.
- 531x. *The American Novel*. Cr. 3 (3-0). (Formerly 531). American fiction to Dreiser. Historical background. Selected works of Howells, James, Garland, Wharton, Lewis, Bromfield, Cather, Rolvaag, and Peterkin.
- 532x. *The English Novel: Lyly to Scott*. Cr. 3 (3-0). (Formerly 532). Lectures on the development of the English novel; reading of such works as *Moll Flanders*, *Pamela*, *Joseph Andrews*, *Humphrey Clinker*, *The Castle of Otranto*, *Pride and Prejudice*, and *Guy Mannering*.
- 533x. *Types of English and Foreign Fiction: 1825 to 1910*. Cr. 3 (3-0). (Formerly 533). The novels of Dickens, Thackeray, Emily Bronte, and Hardy; significant examples from foreign fiction.
- 534x. *Old English*. Cr. 3 (3-0). (Formerly 534). The phonology and morphology of Old English. Text: Flom, *Old English Grammar and Reader*.
- 535x. *Beowulf*. Cr. 3 (3-0). (Formerly 535). A close reading of the Wyatt and Chambers edition of the *Beowulf*. Supplementary Text: Lawrence, *Beowulf and Epic Tradition*.
- 536x. *Outline of American Literary History: 1608 to the Present*. Cr. 3 (3-0). (Formerly 630 and 631). Orientation. Chronology, literary types, sectional movements, and foreign influences. Primarily for graduates and for undergraduates with an English major, especially those who intend to teach English in high school.
- 537x. *Spenser*. Cr. 3 (3-0). (Formerly 537). The shorter poems, and selected cantos of *The Faerie Queene*; incidental interpretation of allegory in the poem. Text: *The Cambridge Spenser*. Not given in 1934-35.
- 538x. *Outline of English Literary History: 600 to 1660*. Cr. 3 (3-0). (Formerly 632). A chronological survey of English

literature and its historical background, offering an intensive review of English literature for candidates for the master's degree.

539x. *Outline of English Literary History: 1660 to 1900*. Cr. 3 (3-0). (Formerly 633). Continuation of Eng. 538x. Not given in 1934-35.

5310x. *The Structure of the Novel*. Cr. 3 (3-0). (Formerly 5330). The elements of the novel. The principles of craftsmanship which make for effective fiction.

Courses in this department which may be taken for graduate credit are: 331x, 332x, 334x, 336x, 337x, 339x, 3313x, 430x, 431x, 432x, 433x, 434x, 435x, 436x, 437x, 439x, 4310x, 530x, 531x, 534x, 535x, 536x, 537x, 538x, 539x, 5310x.

JOURNALISM

Sophomore standing is prerequisite for any course in Journalism.

Students majoring in Journalism, in addition to meeting the requirements for a Bachelor of Arts degree are required to complete 30 hours in Journalism, and 20 hours in sophomore, junior and senior courses in some of the following subjects: Economics, English, Government, History, Psychology, Romance Languages, and Sociology.

The work in Journalism is designed to give a thorough training in the technique of journalistic writing, a knowledge of the development of American Journalism, and an understanding of those principles which underlie the most approved journalistic practice.

231x. *Newspaper Reporting and Writing*. Cr. 3 (3-0). Sem. I. (Formerly 234-5). An introduction to journalism; the problems and methods of gathering and writing news. Laboratory work on the college publications. Text: Macdougall, *Reporting for Beginners*.

232x. *Copyreading and Headline Writing*. Cr. 3 (3-0). Sem. II. (Formerly 236). Practice in copyreading and headline writing; newspaper style, make-up, and illustrations. Laboratory work on the college publications. Text: Bastian, *Editing the Day's News*.

310x-1x. *Problems, Principles and Practice*. Cr. 1 (1-0). Sems. I and II. Lectures by faculty members and practical newspaper men; round-table discussions. Particular emphasis on assignments. For staff members of the college publications.

- 321x. *Typography*. Cr. 2 (2-0). Sem. II. Mechanics of printing and publishing, choice of type and its arrangement, engravings, the assembling of engravings and type, the make-up of newspaper, magazine, and book pages, and the typography of advertisements. Harmonious relationship between type, paper, ink, and engravings.
- 331x. *Special Feature Articles*. Cr. 3 (3-0). Sem. I. The feature article, with regard to field, subject, material, appeal and purpose, type and style. Text: Harrington, *Chats on Feature Writing*.
- 332x. *Magazine Article Writing*. Cr. 3 (3-0). Sem. II. Technique and procedure in writing for current magazines; what to write about, where and how to get facts, and how to arrange them; preparation of the whole article; study of markets. Text: Robert P. Crawford, *The Magazine Article*.
- 333x. *Problems of the Community Newspaper*. Cr. 3 (3-0). Problems of the weekly and small daily newspaper; organization, sources of income and expenditure, advertising and circulation, news services, salaries and wages, unions, publishers' associations, and general business problems. Text: Brown, *Business Problems of the Newspapers*. Given in alternate years; given in 1934-35.
- 334x. *Editorial Writing*. Cr. 3 (3-0). Sem. II. Theory and practice of editorial writing; the types of editorials, with analysis of style, content, and purpose; technique and much practice. Text: Bush, *Editorial Thinking and Writing*.
- 335x. *History of American Journalism*. Cr. 3 (3-0). Sem. I. 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: Bleyer, *The History of American Journalism*.
- 430x. *Principles of Journalism*. Cr. 3 (3-0). Sem. II. 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: Crawford, *The Ethics of Journalism*; Arthur & Crossman, *The Law of Newspapers*. Given in alternate years; not given in 1934-35.
- 431x. *Critical Writing*. Cr. 3 (3-0). Sem. I. (Formerly 540). Journalistic criticism, including painting, music, plays and motion pictures, literature, and other forms of art. For students seeking general culture as well as for those preparing for newspaper departmental work. Given in alternate years; given in 1934-35.

- 432x. *High School Publications*. Cr. 3 (3-0). S. The problems confronted by a publications supervisor in organizing and maintaining high school newspapers and yearbooks, functions of high school publications, organization and training of the staff, and editorial and business problems. Text: Greenawalt, *School Press Management*.

DEPARTMENT OF FOREIGN LANGUAGES

Professor Qualia. Associate Professors Whatley, Henninger.

Assistant Professors Gates, Dingus, Strehli.

Instructor Cook.

The Department of Foreign Languages offers instruction in German, French, Spanish, and Latin. The courses in French, German, and Latin are specifically service courses, two years' work being offered in French and German for students majoring in the sciences or for those expecting to do graduate work in scientific fields. Instruction is given both in the language and the literature of Spain and Spanish America. Courses in the Spanish language and literature leading to the Bachelor of Arts and Master of Arts degrees are offered.

Students following a Spanish major are strongly urged to pursue work in another foreign language and in English. Other subjects which may be effectively combined with a Spanish major are Speech, History, Journalism.

SPANISH

Students majoring in Spanish must offer 36 semester hours, 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, 24 semester hours of Spanish are sufficient for a major. Those expecting to major in Spanish should consult with the Head of the Department.

- 131x-2x. *A Beginning Course in Spanish*. Cr. 3 (3-0). Sems. I and II. (Formerly 131-2-3). Grammar, reading and conversation.
- 231x-2x. *Grammar, Reading, Composition, and Conversation*. Cr. 3 (3-0). Sems. I and II. (Formerly 231-2-3). Prerequisite: Spanish 131x-2x, or two units of high school Spanish.
- 331x-2x. *Contemporary Literature*. Cr. 3 (3-0). Sems. I and II. (Formerly 331-2-3). Prerequisite: Spanish 231x-2x, or three or four units of high school Spanish. Spanish literature from the beginning of the Romantic movement to the present. Reading

of representative novels, dramas, and lyrics. Collateral readings and composition based on readings. Conducted chiefly in Spanish. Spanish 331x-2x and Spanish 333x-4x may not both be counted towards a degree.

333x-4x. *Commercial Spanish*. Cr. 3 (3-0). Sems. I and II. (Formerly 334-5-6). Prerequisite: Spanish 231x-2x, or three or four units of high school Spanish. The history, geography, literature, customs, and economic conditions of Spanish-American countries. Commercial and scientific Spanish and correspondence. Conducted in Spanish. Does not satisfy the prerequisite for courses in Spanish literature. Spanish 331x-2x and Spanish 333x-4x may not both be counted toward a degree.

431x-2x. *The Modern Novel*. Cr. 3 (3-0). Sems. I and II. (Formerly 431-2-3). Prerequisite: Spanish 331x-2x or its equivalent. Certain nineteenth century novels representing the various tendencies and regions. Lectures. Written reports. Conducted chiefly in Spanish. Given in alternate years; given in 1934-35.

433x-4x. *The Modern Drama*. Cr. 3 (3-0). Sems. I and II (Formerly 434-5-6). Prerequisite: Spanish 331x-2x or its equivalent. The drama from the Romantic movement to the present. Conducted chiefly in Spanish. Given in alternate years; not given in 1934-35.

435x. *Teachers' Course in Methods of Teaching Spanish*. Cr. 3 (3-0). S. (Formerly 437). Prerequisite: Spanish 331x-2x and one year in Education. Preparation for teaching Spanish in high school. Scientific and practical methods with as much practice work as possible.

436x-7x. *Advanced Grammar, Composition, and Style*. Cr. 3 (3-0). S. (Formerly 4310-11-2). Prerequisite: Spanish 331x-2x, or its equivalent. Recommended for those who intend to teach Spanish.

531x-2x. *The Prose of the Golden Age*. Cr. 3 (3-0). Sems. I and II. (Formerly 531-2-3). Prerequisite: Spanish 331x-2x. The important prose writers from 1499 to 1650. Reading of representative works, lectures, collateral reading, and reports. Conducted chiefly in Spanish. Given in alternate years; given in 1934-35.

533x-4x. *The Drama of the Golden Age*. Cr. 3 (3-0). Sems. I and II. (Formerly 534-5-6). Prerequisite: Spanish 331x-2x or its equivalent. The drama of the seventeenth century. Reading of representative plays; lectures, discussion, collateral reading and reports. Conducted chiefly in Spanish. Given in alternate years; not given in 1934-35.

- 535x-6x. *A Survey of Spanish Literature*. Cr. 3 (3-0). Sems. I and II. (Formerly 537-8-9). Prerequisite: Spanish 331x-2x. 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.

FRENCH

- 131x-2x. *A Beginning Course in French*. Cr. 3 (3-0). Sems. I and II. (Formerly 131-2-3). Grammar, reading, and oral practice.
- 231x-2x. *A Reading Course in French*. Cr. 3 (3-0). Sems. I and II. (Formerly 231-2-3). Prerequisite: French 131x-2x, or two units of high school French.
- 233x-4x. *Scientific French*. Cr. 3 (3-0). Sems. I and II. Prerequisite: French 131x-2x, or two years of high school French or the equivalent. The reading of specially prepared scientific texts in French with grammar review to assist in the interpretation. For pre-medical and science students in general.
- 331x-332x. *A Rapid Reading Course*. Cr. 3 (3-0). Sems. I and II. Prerequisite: French 231x-2x or 233x-4x, or the equivalent. For third-year science students and others who wish to acquire facility and ease in reading modern French. Enough grammar and composition to build a solid foundation.

GERMAN

- 131x-2x. *A Beginning Course in German*. Cr. 3 (3-0). Sems. I and II. (Formerly 131-2-3). Grammar, reading, and oral practice.
- 231x-2x. *A Reading Course in German*. Cr. 3 (3-0). Sems. I and II. (Formerly 231-2-3). Prerequisite: German 131x-2x, or two units of high school German or the equivalent. Reading of standard literary texts. Grammar review with oral and written practice.
- 233x-4x. *Scientific German*. Cr. 3 (3-0). Sems. I and II. (Formerly 234-5-6). Prerequisite: German 131x-2x, or two years of high school German or the equivalent. The reading of specially prepared scientific texts in German with grammar review to assist in the interpretation. For pre-medical and science students in general.

LATIN

A student credited with four admission units in Latin should take Latin 233x-4x. Such a student, on completing the work of 233x-4x with an average of B, will be given degree credit for four semester hours in addition to the value of Latin 233x-4x, in case, the total number of his admission credits is at least sixteen; for two semester hours, if the total number is fifteen and a half.

111x-2x. *Writing Course*. Cr. 1 (1-0). Sems. I and II. (Formerly 111-2-3). Required of all students wishing the recommendation of the department as teachers of Latin. Strongly recommended for all students taking Latin 231x-2x or 233x-4x.

131x-2x. *A Beginning Course in Latin*. Cr. 3 (3-0). Sems. I and II. (Formerly 131-2-3). Forms, word formation, the fundamentals of syntax, and easy reading. Especially recommended for students preparing for law or medicine, as well as for those electing Latin for degree requirements.

231x-2x. *Reading and Composition*. Cr. 3 (3-0). Sems. I and II. (Formerly 231-2-3). Prerequisite: Two units of high school Latin. Selections from Caesar, Cicero, and Virgil. A review of Latin grammar; informal instruction in mythology and antiquities.

233x-4x. *Cicero's De Senectute and De Amicitia, The Phormio of Terence, and The Odes of Horace*. Cr. 3 (3-0). Sems. I and II. (Formerly 234-5-6). Prerequisite: Latin 231x-2x, or four units of high school Latin.

331x-2x. *Junior Reading*. Cr. 3 (3-0). Sems. I and II. Prerequisite: Latin 231x-2x or four years of high school Latin. Authors read vary from year to year. Given in alternate years; given in 1934-35.

333x-4x. *Senior Reading*. Cr. 3 (3-0). Sems. I and II. Prerequisite: To be determined by the instructor. Given in alternate years; not given in 1934-35.

DEPARTMENT OF GEOLOGY AND GEOLOGICAL ENGINEERING

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

The work of the Department of Geology is planned for those who desire a general knowledge of geology for cultural purposes, for those selecting geology to be used in fulfilling general science requirements, and especially for those students desiring preparation

for professional work in geology. Courses above sophomore year are all professional courses.

Students who desire to prepare themselves to enter professional work in geology may take either the course of study in Geological Engineering offered by the Division of Engineering, or that leading to the degree of Bachelor of Science, Geology Major, offered by the Division of Arts and Sciences. The instruction in Geology is identical in both cases. In the Geological Engineering curriculum, shown under *Division of Engineering*, training in geology is accompanied by thorough instruction in fundamental engineering subjects. In the curriculum leading to the degree of Bachelor of Science, Geology Major, shown under *Division of Arts and Sciences*, emphasis is placed upon general training in other sciences as well as specialization in geology.

Students who desire to fulfill the science requirements for the Bachelor of Arts degree may take Geology 131x-2x. Geography 131x-2x may be taken as a second science.

Courses numbered 333x and above are for advanced undergraduates. Courses numbered 511x and above are primarily for graduate students.

121x. *Principles of Geology*. Cr. 2 (2-0). Sem. I and Sem. II. Important principles of geology. History of the earth and its inhabitants. For students desiring a brief course in geology for cultural purposes only. Not accepted as fulfillment of science requirement.

131x-2x. *General Geology*. Cr. 3 (2-4). Sems. I and II. (Formerly 131-2-3). Physical and historical geology. Present day geologic processes followed by applications of these principles to the interpretation of the geologic record. A foundation course for further work in geology. May also serve for cultural purposes.

221x-2x. *Mineral Resources*. Cr. 2 (2-0). Sems. I and II. (Formerly 321-2-3). Prerequisite: Geol. 131x-2x. Characteristics, occurrence, distribution, structure, and origin of the principal mineral deposits and economic problems connected with these deposits. A survey course adapted to the general student. Not given in 1934-35.

231x-2x. *Mineralogy*. Cr. 3 (2-3). Sems. I and II. (Formerly 231-2-3). Prerequisite: Preceded or accompanied by Chem. 131x-2x. Principles of crystallography; methods of identifications of minerals; blowpipe analysis; occurrence and properties of minerals.

233x. *General Geology for Engineers*. Cr. 3 (2-1) Sem. I. (Formerly 332-3, or 332x. Similar to Geol. 131x-2x but a shorter

course and adapted to the special needs of Engineering students other than Geological Engineering students; especially for students in Civil Engineering.

- 311x. *Prospecting*. Cr. 1 (1-0). Sem. II. Prerequisite: Geol. 131x-2x and 231x-2x. The characteristic associations of valuable earth materials and their concentration to form valuable deposits. A statement of field methods and a preliminary study in making reconnaissance surveys in search for minerals. Special reference to the search for placer gold and for petroleum bearing lands. Given only on sufficient demand.
- 322x. *Geologic Mapping*. Cr. 2 (2-0). Sem. I. (Formerly 330). Prerequisite: C. E. 220x or C. E. 231x-2x. Methods of using the surveying aneroid, hand level, clinometer, Brunton compass, hand transit, telescopic alidade; plane table methods as applied to geologic surveys; making of topographic and structure contour maps. Field work entirely.
- 333x. *Petrology: Optical Mineralogy*. Cr. 3 (1-6). Sem. I. (Formerly 334 and $\frac{1}{2}$ 335). Prerequisite: Geol. 131x-2x and 231x-2x. Principles and methods of study and identification of rock forming minerals by means of the petrographic microscope.
- 334x. *Petrology: Descriptive*. Cr. 3 (1-6). Sem. II. (Formerly $\frac{1}{2}$ 335 and 336). Prerequisite: Geol. 333x. Application of the principles of optical mineralogy to the study and identification of igneous rocks; principles of rock classification and practice in both megascopic and microscopic classifications.
- 335x-6x. *General Paleontology*. Cr. 3 (2-4). Sems. I and II. (Formerly 337-8-9). Prerequisite: Geol. 131x-2x and junior standing. The detailed structure, basis of classification, and geologic history of the various groups of invertebrates. The vertebrates and plants studied similarly, but less comprehensively.
- 363x. *Field Geology*. Cr. 6 (0-6). S. (Formerly 294). Prerequisite: Geol. 131x-2x. Principles of stratigraphy, structural geology and methods of geological surveys. Given in the field. For further details see special announcements of the Department of Geology.
- 422x. *Geology of Texas*. Cr. 2 (2-0). Sem. I. (Formerly 311-2-3). Prerequisite: Twelve semester hours in Geology. Physical and historical geology of Texas.
- 423x. *Seminar*. Cr. 2 (2-0). Sem. II. (Formerly 413-4-5). Prerequisite: Junior or senior standing. Assigned readings, reports, and discussions of current geological problems.
- 431x-2x. *Advanced General Geology*. Cr. 3 (3-0). Sems. I and II. (Formerly 431-2-3). Prerequisite: Geol. 131x-2x,

- 231x-2x, and 235x-6x. The outstanding problems in physical and historical geology. Readings in the original literature of each subject.
- 433x. *Structural Geology*. Cr. 3 (2-3). Sem. I. (Formerly 421-2-3). Prerequisite: Geol. 333x-4x and 335x-6x. Deformation and structures of rocks with special emphasis on the relation of these to economics problems.
- 434x. *Petroleum Geology*. Cr. 3 (2-3). Sem. II. (Formerly 424-5-6). Prerequisite: Geol. 433x. Problems of the origin and accumulation of oil deposits; assembling and interpretation of data bearing on problems peculiar to certain fields. For students expecting to engage in the exploration and development of oil fields.
- 435x. *Index Fossils*. Cr. 3 (1-6). Sem. I. (Formerly 417-8-9). Prerequisite: Geol. 335x-6x. The stratigraphy and different horizon makers of the different systems with practice in making and identifying field collections.
- 436x. *Micropaleontology*. Cr. 3 (1-6). Sem. II. (Formerly 427-8-9). Prerequisite: Geol. 335x-6x. Foraminifera and other microfossils of the oil bearing strata of Texas; methods of collection and preparation.
- 437x. *Geophysics*. Cr. 2 (1-3). Sem. II. Theory and practice in methods of geophysical exploration including practical geophysical surveys. A cooperative course given by the Departments of Physics and Geology for properly qualified students of either department. Registration only on permission of the Heads of both Departments.
- 511x-2x. *Sedimentary Petrology*. Cr. 1 (0-1). Sems. I and II. (Formerly 517-8-9). Prerequisite: Twenty-four hours in Geology, including Geol. 333x-4x. To accompany Geol. 531x-2x. Application of the principles of petrology to the study of the mineral grains of sedimentary rocks and their identification under the petrographic microscope. Micro-chemical tests and use of index of refraction liquids.
- 523x-4x. *Sedimentation*. Cr. 2 (1-3). Sems. I and II. (Formerly 521-2-3). Prerequisite: Twenty-four semester hours in Geology, including Geol. 333x-4x, and preceded or accompanied by Geol. 511x-2x. Advanced investigation. The processes and results of sedimentation; analytic laboratory work in sediments. Special attention to subsurface methods.
- 535x-6x. *Advanced Work in Specific Fields*. Credit varies. Sems. I and II. (Formerly 441-2-3, 444-5-6, 447-8-9). Prerequisite:

Twenty-four hours in Geology, and senior or graduate standing. Course and credit to depend upon the preparation and needs of the student, and the work done. Registration only with the approval of the Head of the Department.

GEOGRAPHY

122x. *Economic Geography*. Cr. 2 (2-0). Sem. II. The economic resources and economic development of the major nations of the world. Not accepted as fulfillment of a science requirement.

131x-2x. *Principles of Geography*. Cr. 3 (2-1). Sems. I and II. (Formerly 131-2-3). Geographic factors especially as they affect the activities of man. The geography of one of the continents taken up in detail second semester. Special emphasis upon relief, climates, development, industries, and communication.

The following courses in this department may be taken for graduate credit: 333x 334x, 335x-6x, 363x, 422x, 423x, 431x-2x, 433x, 434x, 435x, 436x, 511x-2x, 523x-4x, 535x-6x.

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 131x-2x or some other course in American government is required of all students. Government 131x-2x, or 321x-2x plus an independent course carrying 2 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.

131x. *American Government, National*. Cr. 3 (3-0). Sem. I and Sem. II. (Formerly 131-2). A fundamental course. The constitution, principles, organization, and actual workings of the national government. Emphasis upon the duties and obligations of citizenship. For freshmen; sophomores, juniors, and seniors take 321x.

132x. *American Government, State*. Cr. 3 (3-0). Sem. I and Sem. II. (Formerly 133). The constitution and framework of the government of Texas; comparison with other state govern-

- ments. For freshmen; sophomores, juniors, and seniors take 322x.
- 231x. *Introduction to Political Science*. Cr. 3 (3-0). Sem. I. (Formerly 234). Prerequisite: Sophomore standing. The origin, development, and functions of political institutions in connection with consideration of political theories.
- 232x. *Modern Governments*. Cr. 3 (3-0). Sem. II. (Formerly 235-6). 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.
- 320x. *American Government, National and State*. Cr. 2 (2-0). Sems. I and II. (Formerly 230 or 220x). An intensive study of American government, both national and state. Work largely based upon the constitution of the United States and Texas. Meets minimum requirements for graduation and for teachers' certification.
- 321x. *American Government, National*. Cr. 2 (2-0). Sem. I. (Formerly 331). For sophomores, juniors, and seniors who have not had 131x.
- 322x. *American Government, State*. Cr. 2 (2-0). Sem. II. (Formerly 332). For sophomores, juniors, and seniors who have not had 132x.
- 331x. *Local Government*. Cr. 3 (3-0). Sem. I. (Formerly 3311). Prerequisite: Govt. 131x-2x. The machinery of city and county government; the forms—both new and old—of municipal government; inter-departmental relations and the relations of local governments to the state.
- 332x. *Local Administration*. Cr. 3 (3-0). Sem. II. (Formerly 3312, 3314). Prerequisite: Govt. 131x-2x. The chief problems of present day local administration: special stress placed upon administration of Texas cities and counties.
- 333x. *American Political Parties, Party Development*. Cr. 3 (3-0). Sem. I. (Formerly 3351). Prerequisite: Govt. 131x-2x. The origin and development of political parties in the United States. Given in alternate years; not given in 1934-35.
- 334x. *American Political Parties, Party Analysis*. Cr. 3 (3-0). Sem. II. (Formerly 3352). Prerequisite: Govt. 131x-2x. Party functions, organization, finance, campaign methods, and elections. Given in alternate years; not given in 1934-35.

- 335x- *American Foreign Relations*. Cr. 3 (3-0). Sem. I. The control and conduct of the relations of the United States with the outside world. Given in alternate years; given in 1934-35.
- 336x. *American Diplomacy*. Cr. 3 (3-0). Sem. II. (Formerly 3371). Prerequisite: Govt. 131x-2x or American History. Foreign policies of the United States. Topical treatment. Given in alternate years; given in 1934-35.
- 431x-2x. *American Constitutional Law*. Cr. 3 (3-0). Sems. I and II. (Formerly 4311-12-13). Prerequisite: Govt. 131x-2x or American History. Interpretation of the Constitution of the United States based principally upon Supreme Court decisions. The leading cases in American constitutional law analyzed. Given in alternate years; not given in 1934-35.
- 433x-4x. *American Political Ideas*. Cr. 3 (3-0). Sems. I and II. (Formerly 4321-22-23). Prerequisite: Govt. 131x-2x or American History. The lives and ideas of leading political thinkers of the United States from the colonial period to the present. Given in alternate years; given in 1934-35.
- 435x-6x. *International Law*. Cr. 3 (3-0). Sems. I and II. (Formerly 4331-32-33). Prerequisite: Govt. 131x-2x or 6 consecutive semester hours of History. The fundamental principles of international law with special emphasis upon American interpretations and contributions. Given in alternate years; given in 1934-35.
- 437x. *Political Geography*. Cr. 3 (3-0). Sem. I. (Formerly 4341-42). Prerequisite: Junior standing. Geographic factors in political problems and in the development of political institutions; the main problems of politics in their relation to world geography. Given in alternate years; not given in 1934-35.
- 438x. *World Politics*. Cr. 3 (3-0). Sem. II. (Formerly 3391). Prerequisite: Govt. 131x-2x or 6 consecutive semester hours in History. Problems and issues which have arisen in the family of nations; organizations and efforts to cope with these problems; the principles of international conduct. Given in alternate years; not given in 1934-35.
- 531x-2x. *Readings and Research*. Sems. I and II. (Formerly 431-2-3 and 531-2-3). Registration may be made at any time upon approval of the Head of the Department. For individual student needs. The number of semester hours determined by the amount, nature, and character of work done.

Courses in this department which may be taken for graduate credit are: Govt. 331x, 332x, 333x, 334x, 335x, 336x, 431x-2x, 433x-4x, 435x-6x, 437x, 438x, 531x-2x.

DEPARTMENT OF HISTORY AND
ANTHROPOLOGY

Professors Ford, Eaves, Holden, McKay.
Associate Professor Wiley.

This department offers courses designed to give a knowledge of the cultural aspirations of the past and of man's efforts to care for the material needs of society through certain economic structures and changing political organization. The origin and development of present day institutions receive major consideration.

Courses numbered under 300 are introductory and are intended for freshmen and sophomores; courses numbered 300 are advanced European history courses; courses numbered 400 are advanced American history courses; either of the last two series is open to students with junior standing or above. Each semester course may be regarded as an independent unit; however, the student should take courses in their regular semester sequence.

History 131x-2x and History 133x-4x are intended primarily for freshmen. Either course will serve as the prerequisite to History 231x-2x.

Students of junior standing, whose major subject is other than History, may, with the permission of the Head of the Department, elect courses in History without having done the prerequisite work required of History majors.

History majors will present for graduation at least five courses (thirty semester hours), three of which must be advanced work.

Advanced courses are given in alternate years. Because of this, the student majoring in History should begin planning his advanced courses at the earliest date practicable.

Students majoring in History should take History 131x-2x and History 231x-2x, before entering advanced courses.

History 131x-2x or junior standing is prerequisite for courses in Anthropology.

Field courses in archaeology are given in the summers.

HISTORY

131x-2x. *History of Civilization*. Cr. 3 (3-0). Each, Sems. I and II. (Formerly 131-2-3). The rise of civilization in Egypt, Babylonia and Crete; its expansion to Western Europe through Greece and Rome; ancient religions and the beginning of Christianity; the medieval church; feudalism; the crusades; the Renaissance; the Protestant revolt; the rise of the modern state;

the industrial revolution; the World War. First semester, prior to 476 A. D.; second semester, since 476 A. D. Open to all students.

133x-4x. *Economic and Political History of England*. Cr. 3 (3-0). Each, Sems. I and II. (Formerly 234-5-6). The legal, economic, and cultural development of the English people. Open to all students, but required of Pre-Law and Business Administration students. First semester, prior to 1689; second semester, since 1689.

231x-2x. *Economic and Political History of the United States*. Cr. 3 (3-0). Each, Sems. I and II. (Formerly 231-2-3). Prerequisite: For Pre-Law and Business Administration students, 133x-4x; for History majors, either 131x-2x or 133x-4x. Discovery, colonization, colonial institutions, the Revolution, the Confederation, the Constitution, growth of nationalism, slavery, expansion, sectionalism, Civil War, Reconstruction, new industrial and social problems; domestic and foreign problems of modern America. First semester, to 1829; second semester, 1829 to the present.

Statement of Prerequisites

For students majoring in History, History 131x-2x and History 231x-2x are prerequisite for History courses numbered 300 and above. With the permission of the Head of the Department History 133x-4x may be substituted for 131x-2x.

Students with junior standing whose major subject is other than History may elect courses without having had the prerequisite.

330x. *Teaching of History in the High Schools*. Cr. 3 (3-0). S. (Formerly 530). Prerequisite: Twelve semester hours in History; 12 semester hours in Education. Modern technique of teaching history in junior and senior high schools with ten days practice teaching; the best methods illustrated in the methods of conducting the course itself. Credited as either History or Education. Given in alternate years; not given in summer of 1935.

331x-2x. *History of Europe Through the Renaissance*. Cr. 3 (3-0). Sems. I and II. (Formerly 331-2-3). Greek civilization, Roman civilization, and the Renaissance; the background of modern European civilization. Given in alternate years; not given in 1934-35.

333x-4x. *Modern Europe, 1492-1870*. Cr. 3 (3-0). Sems. I and II. (Formerly 334-5-6). The Reformation; the development of nationalism and enlightened despotism; the French Revolution and Napoleon; the Metternich system and the Revolutionary years of 1830 and 1848; the unification of Italy and Germany;

- the Franco-Prussian War. Given in alternate years; given in 1934-35.
- 335x. *Contemporary Europe, from 1870 to the Present*. Cr. 3 (3-0). S. (Formerly 531-2). The external, diplomatic, nationalistic, and imperialistic aspects of contemporary European history culminating in the World War; the World War, its aftermath, and present-day Europe. Given in Alternate summers; not given in summer of 1935.
- 336x-7x. *Tudor and Stuart England*. Cr. 3 (3-0). Sems. I and II. The establishment of a strong monarchy; the break with the Roman church; the rise of English sea power; the contest between king and parliament; civil war; the Commonwealth and Restoration; supremacy of Parliament and England's early colonial policies. Given in alternate years; given in 1934-35.
- 338x-9x. *Eighteenth and Nineteenth Century England*. Cr. 3 (3-0). Sems. I and II. The rise of the cabinet; the fight for colonial supremacy; Whig versus Tory; the industrial revolution; the Napoleonic contest; the reforms in agriculture; the Irish question; the development of the British Commonwealth of Nations; the World War and subsequent problems. Given in alternate years; not given in 1934-35.
- 3310x. *England Before 1485*. Cr. 3 (3-0). S. Early Britain; Anglo-Saxon England; the Norman conquest; English feudalism and early legal institutions; the Great Charter; the rise of Parliament; the Hundred Years War, and the War of Roses. Given in alternate summers; not given in summer of 1935.
- 430x. *English Colonial America*. Cr. 3 (3-0). S. (Formerly 431-2-3). English explorations and early efforts at settlement; colonial beginnings in the South and in New England; the development of American institutions and culture; the rise of economic problems and the political thinking of the Colonists. Given in alternate years; given in summer of 1935.
- 431x-2x. *History of Latin America*. Cr. 3 (3-0). Sems. I and II. (Formerly 337-8-9). Exploration, colonization, revolution, political development, social and economic problems, and Pan-American relations. Given in alternate years; given in 1934-35.
- 433x-4x. *The American Revolution and Early Constitutional Development*. Cr. 3 (3-0). Sems. I and II (Formerly 434-5-6). The causes and progress of the American Revolution; French aid; the Loyalists; English sentiment; finances; the Peace Treaty of 1783; the Confederation; formation and adoption of the Constitution; governmental organization; adoption of the early amendments. Given in alternate years; not given in 1934-35.

- 435x. *History of American Diplomacy*. Cr. 3 (3-0). S. (Formerly 411-2-3). The diplomacy of the revolutionary, federalist, and republican periods; the Monroe doctrine; the Mexican problems; Civil War diplomacy; the Caribbean policies; the World War. Given in alternate summers; given in summer of 1935.
- 436x-7x. *History of the United States, 1789-1841*. Cr. 3 (3-0). Sems. I and II. The federalist and republican periods; second war with Great Britain; the rise of nationalism and the Jacksonian era. Given in alternate years; not given in 1934-35.
- 438x-9x. *History of Texas*. Cr. 3 (3-0). Sems. I and II. (Formerly 437-8-9). Exploration, colonization, revolution, the republic, statehood, expansion of the frontier across West Texas, and modern social and economic problems. Given in alternate years; not given in 1934-35.
- 4310x. *Expansion of the United States*. Cr. 3 (3-0). S. (Formerly 330). A detailed study of the Peace Treaty of 1783; the purchase of Louisiana; acquisition of Florida; annexation of Texas; the Oregon controversy; the Mexican cession; the Gadsden Treaty; the purchase of Alaska; the acquisition of our insular possessions. Given in alternate summers; not given in summer of 1935.
- 4311x-12x. *The Civil War and Reconstruction*. Cr. 3 (3-0). Sems. I and II. (Formerly 533-4-5). Economic, political, and social history of slavery in the United States; the Old South; secession; the economic problems of the Civil War; the South after the war; reconstruction policies; radical rule and its overthrow; the disputed presidential election of 1876-1877. Given in alternate years; given in 1934-35.
- 4313x-14x. *The United States Since the Civil War*. Cr. 3 (3-0). Sems. I and II. (Formerly 536-7-8). Economic and social adjustments after the Civil War; the increase in manufacturing and creation of new industries; big business; tariff; Spanish-American War; Progressivism; the World War and later problems. Given in alternate years; given in 1934-35.
- 4315x. *Constitutional Developments in Texas*. Cr. 3 (3-0). S. (Formerly 430). Constitution of the Republic of Texas; early statehood; the Civil War decade; formation and adoption of the Constitution of 1876; amendments and present tendencies. Given in alternate summers; not given in summer of 1935.
- 535x. *The Technique of Research*. Cr. 3 (3-0). Sem. I. S. (Formerly 635). Prerequisite: Graduate or senior standing. Bibliography, sources, methods of gathering material, evaluation, elimination, assimilation, organization, and composition. Lec-

tures, projects, and readings. Open to senior History majors and required of all graduate students majoring in History.

ANTHROPOLOGY

- 331x-2x. *Anthropology*. Cr. 3 (3-0). Sems. I and II. (Formerly 331-2-3). Prerequisite: Hist. 131x-2x. Development of man from his origin; races; special reference to pre-historic races of North and Central America.
- 336x-7x. *Mexican Archaeology*. Cr. 3 (3-0). S. Prerequisite: Permission of the instructor. A field course in Old Mexico. Lectures, reading, research, excavation, and visits to archaeological ruins in the vicinity of Mexico City. Given in alternate summers; not given in summer of 1935.
- 431x-2x. *Field and Museum Technique*. Cr. (3-0). Sems. I and II. (Formerly 431-2). Prerequisite: Permission of the instructor.
- 433x-4x. *Southwestern Archaeology*. Cr. 3 (3-0). S. (Formerly 434-5-6). Prerequisite: Permission of the instructor. A field course. Lectures, research and excavation. Given in alternate summers; given in summer of 1935.
- 438x-9x. *North American Archaeology*. Cr. 3 (3-0). S. Prerequisite: Permission of instructor. A field course. Lectures, research, and excavation. Given in alternate summers; not given in summer of 1935.

Courses in this department which may be taken for graduate credit are: Hist. 331x-2x, 333x-4x, 335x, 336x-7x, 338x-9x, 3310x, 430x, 431x-2x, 433x-4x, 435x, 436x-7x, 438x-9x, 4310x, 4311x-12x, 4313x-14x, 4315x; Anthro. 331x-2x, 336x-7x, 431x-2x, 433x-4x, 438x-9x.

DEPARTMENT OF MATHEMATICS

Professors Michie, Sparks, Underwood. Associate Professor Thompson. Assistant Professors Heineman, Langston.
Instructor Christianson.

The courses of instruction in this department are designed to give the student a working knowledge of mathematics, and to enable him to solve any of the ordinary problems which may arise in the study and pursuit of the engineering and scientific professions. They assist the student in developing the habit of self criticism in thinking and writing. As one of the most ancient, and at the same

time modern, practical and progressive of sciences, mathematics is an integral part of any general education.

The department offers courses which fit into the curricula of the various divisions of the college, making modification and changes to meet the requirements of the particular divisions.

Courses numbered from 400x to 500x are advanced undergraduate courses. Those numbered from 500x to 532x, inclusive, are combined courses, and those numbered 533x and above are graduate courses.

Students expecting to do graduate work in Mathematics should have completed Math. 335x-6x, Differential and Integral Calculus, and Math. 332x, Theory of Equations, together with the prerequisite to the courses. At least nine semester hours in Mathematics courses numbered above 336x are required for admission to candidacy for the master's degree in this department. It is important that a candidate for the degree plan his courses at the beginning of his graduate work. His advisor will aid him in selecting courses and a thesis subject.

In graduate or undergraduate work any scheduled course may be withdrawn when the demand does not justify its continuance.

121x-2x. *Algebra*. Cr. 2 (2-0). Sems. I and II. (Formerly 1311-2). Prerequisite: One and one-half units of high school algebra. Quadratic equations, variation, progressions, the binomial theorem, graphs, complex numbers, elementary theory of equations, logarithms, and partial fractions.

123x. *Popular Astronomy*. Cr. 2 (2-0). Prerequisite: One unit of high school algebra and one unit of plane geometry. The solar system and stellar universe. A non-mathematical cultural course. Not accepted as fulfillment of a science requirement.

120x. *Algebra*. Cr. 2 (4-0). Sem. I. (Formerly 1311, with additional material). Review of high school algebra, graphs, quadratic equations, variation, progressions, and the binomial theorem. This course, which ends at the same place as Math. 121x, required of those students who are unable to carry the regular work in freshman Engineering Mathematics.

130x. *Algebra*. Cr. 3 (3-0). Sem. I. (Formerly 130 and half of 131). Prerequisite: One unit of high school algebra and one unit of plane geometry. Brief review of high school algebra, quadratic equations, variation, progressions, graphs, and the binomial theorem.

131x. *Trigonometry*. Cr. 3 (3-0). Sem. I and Sem. II. (Formerly 132 and first half of 133, also 1310 and first half of 1313). Prerequisite: One unit of high school algebra and one unit of

plane geometry. Trigonometric functions, identities, and conditional equations, circular measure, logarithms, solutions of triangles, and applications.

- 132x. *Analytics*. Cr. 3 (3-0). Sem. I and Sem. II. (Formerly second half of 133 and all of 231, also last half of 1313 and all of 2321). Prerequisite: Math. 131x. Analysis of curves, loci, the straight line, circle, parabola, ellipse, hyperbola, transformation of coordinates, polar coordinates, graphs of the trigonometric, logarithmic, and exponential functions.
- 135x. *Mathematics for Home Economics Students*. Cr. 3 (3-0). Sem. I and Sem. II. (Formerly 1300, with additional material.) Selected topics from arithmetic, algebra, business mathematics, and statistics, with special applications to the problems arising in home economics.
- 137x. *Commercial Algebra*. Cr. 3 (3-0). Sem. I and Sem. II. Prerequisite: One unit of high school algebra and one unit of plane geometry. Review of high school algebra with applications to commercial problems, simple equations, exponents, radicals, quadratics, progressions, binomial theorem, graphs, logarithms.
- 138x. *Mathematics of Finance*. Cr. 3 (3-0). Sem. II (Formerly 237 and 238). Prerequisite: Math. 137x or its equivalent. Interest, annuities, amortization, depreciation, sinking funds, bonds.
- 221x. *Teaching of Arithmetic*. Cr. 2 (2-0). S. (Formerly 230). Prerequisite: Math. 130x and 131x or the equivalent. For teachers of arithmetic in the first seven grades.
- 231x-2x. *Mathematics for Students of Agriculture*. Cr. 3 (3-0). Sems. I and II. (Formerly 134-5-6). Prerequisite: One unit of high school algebra and one unit of plane geometry. College algebra, trigonometry, graphs, business mathematics, averages and mixtures, elements of statistics, simple machines.
- 233x. *Calculus Applications*. Cr. 3 (3-0). Sem. I and Sem. II. (Formerly second half of 3311 and all of 3312). Prerequisite: Math. 251x. Volumes, centroids, moment of inertia, pressure, work, series, indeterminate forms, partial differentiation.
- 235x-6x. *Analytic Geometry*. Cr. 3 (3-0). Sems. I and II. (Formerly last half of 133 and all of 231, with additional material). Prerequisite: Math. 131x. Analysis of curves, loci, the straight line, conic sections, transformation of coordinates, polar coordinates, graphs of the trigonometric, logarithmic and exponential functions, parametric equations, higher plane curves, and the elements of solid analytics.

- 237x. *Mathematics of Insurance*. Cr. 3 (3-0). Sem. I. (Formerly 239 with additional material). Prerequisite: Math. 138x. Theory of probability as related to insurance, construction of mortality tables, expectation of life, life annuities, premiums, policy options, reserves, Texas Standard.
- 238x. *Statics*. Cr. 3 (3-0). Sem. II. Prerequisite: Math. 137x. Collection and tabulation of data, bar charts, line graphs, sampling, averages, dispersion, correlation, index numbers, normal curve, probability, estimation, with application to economic problems.
- 251x. *Calculus*. Cr. 5 (5-0). Sem. I and Sem. II. (Formerly 2322-23 and first half of 3311). Prerequisite: Math. 132x. Differentiation, maxima and minima, rates, curvature, formal integration, constant of integration, and areas.
- 321x. *Differential Equations*. Cr. 2 (2-0). Sem. II. (Formerly 3313). Prerequisite: Math. 251x. Methods for the solution of elementary types of differential equations, with applications.
- 332x. *Theory of Equations and Determinants*. Cr. 3 (3-0). Sem. II. Prerequisite: Math. 335x. Complex numbers, properties of polynomial functions, algebraic criteria for ruler and compass constructions, approximation to roots of numerical equations, symmetrical functions, determinants, systems of linear equations.
- 334x. *Advanced Algebra*. Cr. 3 (3-0). Sem. I. (Formerly 232 and half of 233). Prerequisite: Math. 236x. Permutations and combinations, limits, series, binomial theorem, logarithmic and exponential functions.
- 335x-6x. *Differential and Integral Calculus*. Cr. 3 (3-0). Sems. I and II. (Formerly 234-5-6). Prerequisite: Math. 132x or 236x. Differentiation, maxima and minima, rates, formal integration, curvature, series, indeterminate forms, and partial differentiation. Recommended to students intending to specialize in mathematics, physics, or chemistry.
- 431x. *Advanced Calculus*. Cr. 3 (3-0). Sem. I. (Formerly 431 and parts of 432-3). Prerequisite: Math. 336x. The calculus, power series, partial differentiation, Taylor's and Maclauren's series, differentiation and integration of series, indeterminate forms, improper integrals.
- 432x. *Differential Equations*. Cr. 3 (3-0). Sem. II. (Formerly 532, with additional material). Prerequisite: Math. 336x. Linear equations and equations of the second order, with geometrical and physical applications. Partial differential equations.
- 438x. *Solid Analytic Geometry*. Cr. 3 (3-0). Sem. II. (Formerly 330, with additional material or 331x). Prerequisite: Math. 332x. The equations of space, curves, planes, lines and quad-

- ratic surfaces. Offered in alternate years; not offered in 1934-35.
- 530x. *Vector Analysis*. Cr. 3 (3-0). Sem. II. (Formerly part of 439x). Prerequisite: Math. 336x, and consent of the instructor. Scalar and vector products, divergence, gradient, curl, applications to geometry, kinematics, electricity, and hydrodynamics. Offered in alternate years; not offered in 1934-35.
- 531x. *Mathematical Statistics*. Cr. 3 (3-0). Prerequisite: Math. 335x. Mathematical definition and interpretation of the statistical coefficients, continuous and discrete variables, sampling, generalized frequency curves, expected values, correlation, regression, correlation surfaces, random sampling fluctuations, Lexis theory, recent developments in statistics. Offered in alternate years; not offered in 1934-35.
- 532x. *Actuarial Mathematics*. Cr. 3 (3-0). Prerequisite: Math. 335x. Brief review of the trigonometric formulas, finite differences, symbolic operators, interpolation, central differences, inverse interpolation, summation, functions and limits, probability, application of the calculus to probability. Offered in alternate years; not offered in 1934-35.
- 533x. *Continuous Groups*. Cr. 3 (3-0). Sem. I. Prerequisite: Math. 332x and 432x. Basic concepts of group theory, such as group, sub-group, invariant sub-group, finite and infinitesimal transformations, one parameter groups and their applications to differential equations and geometry, the fundamental theorems of Lie, invariant theories associated with continuous groups; differential invariants and applications to systems of partial differential equations. Offered in alternate years; not offered in 1934-35.
- 534x. *Synthetic Projective Geometry*. Cr. 3 (3-0). Sem. I. (Formerly 534 and half of 535). Prerequisite: The consent of the instructor. Fundamental theorems of projective geometry treated synthetically. Exercises and applications.
- 535x. *Analytic Projective Geometry*. Cr. 3 (3-0). Sem. II. (Formerly half of 535 and all of 536). Analytic treatment of the projective properties of the straight line and of the conic sections.
536. *Modern Algebra*. Cr. 3 (3-0). Sem. I. (Formerly 434 and parts of 435-6, or 434x). Prerequisite: Math. 332x. Determinants, matrices, systems of linear equations, linear transformations, quadratic and bilinear forms.
- 537x. *Functions of a Complex Variable*. Cr. 3 (3-0). (Formerly 537 and parts of 538-9). Prerequisite: Math. 431x. Algebra and calculus of complex numbers and their geometric represen-

tations, conoformal mapping, power series and properties of analytic functions, Riemann surfaces. Offered in alternate years; not offered in 1934-35.

538x. *Theory of Numbers*. Cr. 3 (3-0). Sem. II. (Formerly 631 and part of 632, or 631x). Congruences, quadratic residues and reciprocity law, quadratic forms, Diophantine analysis.

541x. *Thesis Course*. Prerequisite: Graduate standing and thirty semester hours in Mathematics. For candidates for the degree of Master of Arts.

Courses in this department which may be taken for graduate credit are: Math. 431x, 432x, 438x, 530x, 531x, 532x, 533x, 534x, 536x, 537x, 538x, 541x.

DEPARTMENT OF MILITARY SCIENCE AND TACTICS

Professor: Colonel Davis.

The general object of the courses of instruction given the Cadet Corps is to qualify students for positions of leadership in time of national emergency.

The four years of military training are divided into basic and advanced courses. The basic courses include the first two years' training in the Department of Military Science and Tactics, corresponding to the freshman and sophomore years in the academic departments. The advanced courses include the last two years training in the Department of Military Science and Tactics corresponding to the junior and senior years of the academic departments.

The student who completes all the work offered in the department with a satisfactory grade will be prepared to pass successfully the examination for a commission as a second lieutenant in the Field Artillery Section of the Officers Reserve Corps.

113x-4x. *Fundamentals of Military Science*. Cr. 1 (1-1). Sems. I and II. (Formerly 111-2-3). Service of the piece, material, field artillery ammunition, fire control instruments, military hygiene and first aid.

115x-6x. *Band*. Cr. 1 (0-6). Sems. I and II. (Formerly 114-5-6). The drill and training of a military band.

213x-4x. *Military Science*. Cr. 1 (0-6). Sems. I and II (Formerly 211-2-3). Map reading; administration, the essentials of

small unit mobilization, military correspondence, organization of field artillery weapons, communications (all methods to include the regiment), computation of firing data (rapid), duties of the chief of section.

215x-6x. *Band*. Cr. 1 (0-6). Sems. I and II. (Formerly 214-5-6). A continuation of 114x-5x.

331x-2x. *Military Science*. Cr. 3 (2-2). Sems. I and II. (Formerly 331-2-3). Preparation of fire (deliberate); conduct of fire (axial observation), reconnoissance, selection and occupation of positions, command leadership, the firing battery, duties of the executive, maneuvers limbered, duties of the reconnoissance officer.

431x-2x. *Military Science*. Cr. 3 (2-2). Sems. I and II. (Formerly 431-2-3). Tactical employment of field artillery; command staff and logistics as applicable to the field artillery staff officer. Military history and the military policy of the United States; military law and courts-martial; battery administration.

DEPARTMENT OF MUSIC

Professor Blitz. Assistant Professor Wiley (Band).

The courses offered by the Department of Music are designed to give the student practical groundwork for the teaching of this subject either in a public or private way. Theory and practice are combined in each course. Thus ear-training in chords, chord analysis and elementary composition, together with keyboard work, are all included in harmony, which can be taken only after the requisite freshman course in theory and ear-training. History and appreciation of music are combined for the same purpose. This latter, however, is purely a cultural course for which no prerequisite is required.

Students who desire music as an elective are advised to take Music 137x-8x; or, if they desire practical knowledge of the science and art, they should take 131x, together with 212x-3x, and 312x-3x as offered, choosing the particular section, Band, Orchestra, or Glee Club, in which their interest lies. Credit for seven semester hours in Academic and Applied Music, as an elective, is allowed on the Bachelor of Arts degree.

Those desiring private lessons are referred to the Applied Music section which follows. No credit in Applied Music will be allowed until one term of Academic Music is offered.

SUGGESTED COURSES FOR PUBLIC SCHOOL MUSIC MAJORS

This list of suggested courses is subject to change.

	Semester Hours	
	Sem. I	Sem. II
Freshman Year		
Music 131x-2x. Elementary Music	3	3
Music 133x. Music Education		3
Applied Music elective	1	1
Eng. 131x-2x. Freshman Composition	3	3
French 131x-2x. A Beginning Course in French		
or		
German 131x-2x. A Beginning Course in German	3	3
Govt. 320x. American Government, National and State	2	
Or. 111x. Orientation	1	
A natural science	3	3
Physical Education	1	1
	17	17
Sophomore Year		
Music 137x-8x. History and Appreciation	3	3
Music 213x-4x. Ensemble	1	1
Music 231x-2x. Harmony and Composition	3	3
Applied Music elective	1	1
Eng. 231x-2x. Introduction to Literature	3	3
French 231x-2x. A Reading Course in French		
or		
German 231x-2x. A Reading Course in German	3	3
Ed. 131x. Introduction to Education	3	
Ed. 132x. Classroom Management and Methods		3
Physical Education	1	1
	18	18
Junior Year		
Music 234x. Music Education		3
Music 313x-4x. Ensemble	1	1
Music 331x-2x. Counterpoint and Composition	3	3
Applied Music elective	2	2
*German 131x-2x. A Beginning Course in German		
or		
French 131x-2x. A Beginning Course in French	3	3
**Zool. 235x-6x. The Human Body	3	3
***Speech 432x-3x. Phonetics and Speech Correction	3	3
Education elective	3	
	18	18
Senior Year		
Music 411x-2x. Orchestral and Band Instruments	1	1
Music 421x-2x. Instrumentation	2	2
Music 423x-4x. Conducting	2	2
Applied Music, orchestra and band elective	1	1
Education elective	3	3
History elective	3	3
Elective	3	3
	15	15

*Third year French may replace first year German, or if German has been taken during the first two years, third year German may be taken.

**Recommended only—other natural science may be substituted.

***Mathematics may be substituted, but must be taken for the entire year.

Students desiring to major in Public School Music should follow the curriculum for this major and file notice of intention, in writing, with the Head of the Department at the earliest practicable date.

The courses offered in the Department of Music will undergo considerable change due to the reorganization of the Department under a new head with new instructors. It is anticipated that the College will offer courses leading to the State Certificate to teach public school music, courses in the theory and practice of music, the fundamentals of harmony, and solfeggio, with opportunities for special training in band and orchestra instruments, piano, voice, and teaching methods and conducting. The history and appreciation of music will be included.

It should be particularly noted that, according to the State Board of Education ruling, only one of the Music Education courses may be counted toward a permanent certificate. Students minoring in Public School Music will offer 131x-2x; 137x-8x; 231x (or 423x-4x); Music 133x, 234x; two years in piano (no credit) or stand examination in sight-reading accompaniment work, and offer one year of any section of 213x-4x, 313x-4x.

Members of glee clubs and other choral organizations, as well as members of the band or orchestra, should also enroll in 131x. The number of semester hours offered thus toward a degree may not exceed seven.

MUSIC

131x-2x. *Elementary Music*. Cr. 3 (3-0). Sems. I and II. (Formerly 134-5-6). Teaching the rudiments with sight reading, ear-training, rhythmic and melodic dictation, modulation, transposition, writing of melodies, meter, and elemental form. Introduction to harmony and counterpoint. For all vocal and instrumental students. Prerequisite to all courses except 137x-8x.

133x. *Music-Education*. Cr. 3 (3-0). Sem. II. (Formerly 130 and part of 230). Methods of teaching in primary and lower intermediate grades. The use of water glasses, rhythm bands, and dictation graphs, with the teaching of music appreciation. (Primary teachers should take Music 131x, 137x and 133x at least).

137x-8x. *History and Appreciation*. Cr. 3 (3-0). Sems. I and II. (Formerly 137-8-9). Cultural, non-technical. Music in its relation to history, geography, philosophy, religion and life generally. Especially planned for those interested in music who have no practical musical training.

213x-4x. *Ensemble*. Cr. 1 (1-0). Sems. I and II. (Formerly 011-2-3). All rehearsing ensemble groups carry these numbers, according to the particular semester and year taken. Sections, instead of being numbered, have letters attached showing the respective divisions.

Thus—

Choral Club, C. C.

Women's Glee Club, W. G. C.

Orchestra, Or.

Band, Bd.

No credit in 213x-4x or 313x-4x beyond two years will be allowed unless needed as a major requirement.

231x-2x. *Harmony and Composition*. Cr. 3 (3-0). Sems. I and II. (Formerly 234-5-6). Practical harmony with elementary composition, harmonic ear-training, keyboard harmony and harmonic analysis.

234x. *Music-Education*. Cr. 3 (3-0). Sem. I. (Formerly part of 230 and 330). Methods of teaching in intermediate and high school grades including the conducting of choral clubs, glee clubs, orchestras, and music appreciation.

313x-4x. *Ensemble*. Cr. 1 (1-0). Sems. I and II. Same content and treatment as 213x-4x.

331x-2x. *Counterpoint and Composition*. Cr. 3 (3-0). Sems. I and II. (Formerly 334-5-6). Practical counterpoint, writing in 2, 3, 4, 5 and 8 parts with polyphonic composition. Modern subjects used in place of the ancient canus fermus.

411x-2x. *Orchestral and Band Instruments*. Cr. 1 (1-0). Sems. I and II. Construction and care of orchestral and band instruments; fingering methods; substitution for missing instrumentation; program making. Each student will be expected to play one instrument reasonably well and to show a comprehensive knowledge of all others.

421x-2x. *Instrumentation*. Cr. 2 (2-0). Sems. I and II. (An expansion of former 534). Arranging for orchestra and band. Beginning with string ensemble and working through woodwind and brass to mixed aggregations and finally the full symphonic orchestra and band.

423x-4x. *Conducting*. Cr. 2 (2-0). Sems. I and II. (An expansion of former 535). Mass song work; specialized choral and orchestral conducting. (Music 411x-2x should be taken as the third hour in either of the 400 courses.)

Piano Accompaniment. A course in piano accompaniment will be given in relation to voice, solo instruments, ensemble, chorus, oratorio, carrying the same credit as for chorus, orchestra, and others.

APPLIED MUSIC

Before credit can be given in Applied Music, entrance requirements (State examinations in theory and practice or the equivalent) must be met.

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

Piano

- 111x-2x. *Freshman Year.* Cr. 1 (0-1). Sems. I and II. (Formerly 110-2-3). Czerny; Burgmiller; Heller; Bach; Mendelssohn; ensemble.
- 211x-2x. *Sophomore Year.* Cr. 1 (0-1). Sems I and II. (Formerly 210-2-3). Czerny; Kullak Octave studies; Heller; Bach—two part inventions; Mendelssohn; ensemble playing.
- 321x-2x. *Junior Year.* Cr. 2 (0-2). Sems. I and II. (Formerly 310-2-3). Cramer; Kullak Octave studies; Bach—three part inventions; Chopin, Etudes; ensemble playing.
- 421x-2x. *Senior Year.* Cr. 2 (0-2). Sems. I and II. (Formerly 410-2-3). Clementi; Bach—well tempered clavichord; Chopin Etudes; ensemble playing. Public recital.

Voice

- 113x-4x. *Freshman Year.* Cr. 1 (0-1). Sems. I and II. (Formerly 113-4-5). Fundamentals of voice production; modern songs.
- 213x-4x. *Sophomore Year.* Cr. 1 (0-1). Sems. I and II. (Formerly 213-4-5). Continuation of fundamentals; standard book of studies; classic songs.
- 323x-4x. *Junior Year.* Cr. 2 (0-2). Sems. I and II. (Formerly 313-4-5). Continuation of fundamentals; arpeggios and chromatic scales. Operatic selections; modern songs.
- 423x-4x. *Senior Year.* Cr. 2 (0-2). Sems. I and II. (Formerly 413-4-5). Selected studies; interpretations; classical and modern songs; oratorio; recitatives and arias. Public recital.

Violin

- 116x-7x. *Freshman Year*. Cr. 1 (0-1). Sems. I and II. (Formerly 116-7-8). Franz Wolfort—Last part Book II, Book III, Hirmalog Scale Studies; Mozes—Book I.
- 216x-7x. *Sophomore Year*. Cr. 1 (0-1). Sems. I and II. (Formerly 216-7-8). Mozes—Book II; Sevcik (double stopping and preparatory); trill studies; Hirmalog—scale studies and shifting exercises; Beethoven, Schumann, Dvorak, and compositions by selected composers.
- 326x-7x. *Junior Year*. Cr. 2 (0-2). Sems. I and II. (Formerly 316-7-8). Kreutzer Etudes; Beginning of Feorello Bowing Studies; De Beriot Concerto No. VII; Selected repertoire.
- 426x-7x. *Senior Year*. Cr. 2 (0-2). Sems. I and II. (Formerly 416-7-8). Kreutzer and Feorello, continued; Rhode caprices, concertos of De Beriot, Bruch; Bach Sonatas; selected repertoire, classic and modern, for recital.

ORIENTATION FOR FRESHMEN

Under the Direction of Dean Gordon and Dean Doak.

The Division of Arts and Sciences along with the other divisions of the College believe definitely that students entering college for the first time should be given an opportunity in a systematic way and under sympathetic guidance to become adjusted to college and college ideals. To that end an orientation course is set up for freshmen, both men and women. Regularly, men students are taught by men teachers, and women by women teachers. All Arts and Sciences freshmen are required to take the course. One semester hour college credit will be given those who do the work satisfactorily.

- 111x. *Orientation*. Cr. 1 (0-2). Sem. I and Sem. II. Two lecture hours a week and a convocation as the conduct of the course demands. Lecture work bearing upon such problems as the change from high school to college, how to study, 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 PHILOSOPHY AND SOCIOLOGY

Directing Head of Department, Dean Gordon. Instructor Bahm.

Philosophy proposes to inquire into life seen as a whole, its meaning and value, and its purpose. It raises earnestly such questions as the origin of the universe; the nature and origin of life; the problem of God; the problem of evil; theories of reality; problems of the soul, mind, and body; and the moral and aesthetic values of life.

Sociology is concerned with human relations—"the origin, development, structure, and functions of social groups". It considers the origin and development of society; individual and societal interests; social forces, social control, social change; group contacts and social progress.

To meet the minimum degree requirements in Philosophy, the student may offer 231x, 232x, or 233x, preferably 233x. Sociology 231x or its equivalent may be used to meet the minimum requirements in Sociology for the degree Bachelor of Science in Education.

PHILOSOPHY

231x. *Elements of Ethics*. Cr. 3 (3-0). Sem. I. (Formerly 233). Problems of individual and social conduct; the bearing of ethical principles upon everyday life.

232x. *Logic*. Cr. (3-0). Sem. II. (Formerly 232). Deductive and inductive logic, with practice in logical analysis, the use of the syllogism and the inductive methods, and detection of fallacies.

233x. *Introduction to Philosophy*. Cr. 3 (3-0). Sem. I. (Formerly 231). The fundamental problems involved in the interpretation of the nature of knowledge, reality, and value.

331x. *Contemporary Philosophy*. Cr. 3 (3-0). Sem. I. Prerequisite: 233x or 332x. The dominant movements in contemporary philosophy.

332x. *History of Philosophy*. Cr. 3 (3-0). Sem. II. (Formerly 331, 234x). The principal philosophical systems developed by the great philosophers of the world.

431x. *Aesthetics*. Cr. 3 (3-0). Sem. I. Interpretation of the nature of beauty. Analysis of the aesthetic experience. Characteristics of art objects. Application of principles to music, poetry, prose literature, painting, sculpture and architecture. Given in alternate years; not given in 1934-35.

432x. *Philosophy of Value*. Cr. 3 (3-0). Sem. II. Prerequisite: 233x. Contemporary theories of the nature of intrinsic, instru-

mental, and economic value. Given in alternate years; not given in 1934-35.

- 436x. *Philosophy of Religion*. Cr. 3 (3-0). Sem. II. A search for the essence of religion by means of a survey of historical and contemporary religious movements: Brahmanism, Buddhism, Confucianism, Judaism, Greek Polytheism, Catholic and Protestant Christianity, and Humanism.

SOCIOLOGY

- 231x. *Introduction to Sociology*. Cr. 3 (3-0). Sem. I. (Formerly 231). The underlying principles of social science.
- 232x. *Advanced Sociology*. Cr. 3 (3-0). Sem. II. (Formerly 233). Some of the major social problems now confronting American society.
- 331x. *Social Pathology*. Cr. 3 (3-0). Sem. I. (Formerly 334, 233x). The socially inadequate; special reference to defectives and dependents. Given in alternate years; not given in 1934-35.
- 332x. *Rural Sociology*. Cr. 3 (3-0). Sem. II. (Formerly 331, 234x). Special phases of rural life. The institutions and problems of rural populations; their relation to the general welfare. Given in alternate years; not given in 1934-35.
- 431x. *Social Psychology*. Cr. 3 (3-0). Sem. I. An introduction to the study of human nature, personality development, attitudes, interaction, and various forms of personal maladjustment. Given in alternate years; given in 1934-35.
- 432x. *Urban Sociology*. Cr. 3 (3-0). Sem. II. City life presented as a phase of the general social life. Interdependence of country and city; problems peculiar to urban living. Given in alternate years; given in 1934-35.

DEPARTMENTS OF PHYSICAL EDUCATION

Professors Cawthon, Smith. Associate Professors Gilkerson, Ballard. Assistant Professor Riegel.

Physical education for both men and women is provided. The aim of the work is to maintain general health and to provide activities that are physically worthwhile.

Every freshman and sophomore student in the College is required to enroll for Physical Education unless excused upon the recommendation of the College physician. However, men may enroll for Military Science instead of for Physical Education.

In the case of physical defects rendering it inadvisable to require the regular Physical Education work, the student is either given special work or in extreme cases may be permitted to meet by substitution the total number of hours of Physical Education required.

Coach P. W. Cawthon is Head of the Department of Physical Education for Men, and Associate Professor Gilkerson is Head of the Department of Physical Education for Women. In both of these departments, in addition to the regularly required work, advanced courses are offered in technique, administration, and methods of teaching physical education. These courses meet the state requirements.

PHYSICAL EDUCATION FOR MEN

113x-4x. *Physical Training*. Cr. 1 (0-2). Sems. I and II. (Formerly 114-5-6). Sections 1, 2, 4—athletic games; calisthenics, corrective exercise, and lectures. Sections 3, 5—wrestling and boxing. Section 6—tumbling.

213x-4x. *Physical Education*. Cr. 1 (0-2). Sems. I and II. (Formerly 214-5-6). A continuation of 113x-4x. Required of sophomores. (Option, Military Science). Sections 1, 3—intramural basketball, football, track, tennis, golf, soccer in season. Sections 2, 4—gymnastics, fencing, wrestling, boxing.

A special course is offered for the student who is not physically able to take part in competitive sports. The regulation gymnasium suit consisting of a scarlet shirt and black trunks and shoes are provided by the student.

237x-8x. *Technique of Sports*. Cr. 3 (3-0). Sems. I and II. Group and mass technique and practice of stunts, soccer, volley ball, tennis, touch football, baseball, indoor baseball, actual practice and study of rules.

321x-2x. *Practical Instruction in Athletics*. Cr. 2 (1-3). Sems. I and II. Plays and formations in all major sports as well as detailed instruction in football, basketball, track, field games, swimming. For juniors only; must be candidates for one major sport each semester and have made a varsity squad previously.

431x-2x. *Theory and Practice of Coaching*. Cr. 3 (2-3). Sems. I and II. (Formerly 431-2-3). Prerequisite: 321x-2x. Theory of coaching football, basketball, baseball, track, field sports; will be taken up in connection with demonstrations of training methods, rules, diet, massage, and athletic administration. For seniors only; must be candidates for one major sport.

PHYSICAL EDUCATION FOR WOMEN

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.

All unrequired athletic activities are sponsored by the Women's Athletic Association. Points are awarded in accordance with the requirements of the Texas Athletic Conference of College Women.

Regulation costumes, described at the first meeting of classes, are to be purchased upon registration for work in Physical Education. These costumes are suitable for classwork throughout the two years of Physical Education.

The following are suggested courses for two years of pre-professional work in Physical Education:

	Semester Hours	
	Sem. I	Sem. II
Freshman Year		
Eng. 131x-2x. Freshman Composition	3	3
Chem. 131x-2x. General Chemistry	3	3
A foreign language	3	3
Ed. 131x. Introduction to Education	3	3
Ed. 132x. Classroom Management and Methods	3	3
Math. 130x. Algebra	3	3
Foods 133x. Food Selection and Elementary Nutrition	3	3
or		
Math. 131x. Trigonometry	3	3
Orient. 111x. Orientation	1	1
Physical Education	1	1
	17	16

Sophomore Year		
Eng. 231x-2x. Introduction to Literature	3	3
Govt. 131x. American Government, National	3	3
Govt. 132x. American Government, State	3	3
Zool. 235x-6x. The Human Body	3	3
The foreign language begun in the freshman year	3	3
Electives	3	3
Physical Education	1	1
	16	16

111x. *Fundamentals in Gymnastics and Rhythms.* Cr. 1 (0-2). Sem. I. Exercises for co-ordination and posture, free rhythmic steps, and movements.

112x. *Stunts, Games, and Sports.* Cr. 1 (0-2). Sem. II. Simple stunts and unorganized games. Development in fundamental skills and team play in major sports.

210x. *Clogging.* Cr. 1 (0-2). Sems. I and II. Clog. Character and tap dancing. For beginning and advanced classes.

- 211x. *Riding*. Cr. 1 (0-2). Sem. I. Instruction and practice in horseback riding. For beginning and advanced students.
- 212x. *Tennis*. Cr. 1 (0-2). Sem. I. Technique and practice in tennis. For beginning and advanced students.
- 215x. *Basketball and Fieldball*. Cr. 1 (0-2). Sem. I. Technique and practice of basketball and fieldball.
- 216x. *Soccer and Speedball*. Cr. 1 (0-2). Sem. II. Technique and practice in fundamental skills and team play of soccer and speedball.
- 217x. *Folk Dancing*. Cr. 1 (0-2). Sem. I. Fundamental steps and rhythms used in folk dances.
- 218x. *Volleyball and Baseball*. Cr. 1 (2-0). Sem. II. Fundamental skills and team play in volleyball and baseball.
- 219x. *Tumbling*. Cr. 1 (0-2). Sem. II. Stunts and pyramid building.
- 2110x. *Archery and Ping-Pong*. Cr. 1 (0-2). Sem. II. Instruction and practice in archery and ping-pong.
- 2111x. *Golf*. Cr. 1 (0-2). Sem. II. Technique and practice of golf.
- 2112x. *Swimming*. Cr. 1 (0-2). S. Technique of the various strokes in swimming. For beginning and advanced students.
- 2113x. *Individual Gymnastics*. Cr. 1 (0-2). Sems. I and II. For students not physically able to enroll in regular required physical education work.
- 230x. *Principles of Health Education*. Cr. 3 (3-0). Sem. II. (Formerly 230). Health education programs in elementary and high schools. Hygiene and first aid material. For women and men.
- 235x-6x. *Technique of Sports*. Cr. 3 (3-0). Sems. I and II. (Formerly 236). Instruction in technique and rules with demonstrations and actual playing of various sports. Baseball, tennis, volleyball, soccer, basketball, speedball, and fieldball. For women only.
- 331x. *Recreational Methods*. Cr. 3 (3-0). Sem. I. (Formerly 231). Group and unorganized games; highly organized games and sports. The games taught are suitable for schools, playground, and social recreation. For women and men.
- 332x. *Physiology of Exercise*. Cr. 3 (3-0). Sem. I. (Formerly 237). The benefits and results of exercise. For women and men.
- 333x-4x. *Methods in Elementary Physical Education*. Cr. 3 (3-0). Sems. I and II. (Formerly 233x). Methods of teaching physical education in elementary schools; the work most adaptable to each grade. For women and men.

- 335x-6x. *Methods in Secondary Physical Education*. Cr. 3 (3-0). Sems. I and II. (Formerly 234x). Methods of teaching physical education in secondary schools; health examination and preparation of a complete program of physical education for secondary schools. For women and men.
- 337x. *History of Physical Education*. Cr. 3 (3-0). Sem. I. History of physical education; with particular attention to recent literature.

DEPARTMENT OF PHYSICS

Professors George, Mast, Abbitt. Associate
Professors Schmidt, Hill.

The instructional work in the Department of Physics has been organized with the view of attaining the following objectives: (1) to acquaint the student who is pursuing a non-specialized course of study with the place of physics in the modern world and to train him in the scientific methods of work; (2) to provide the basic training in physics for agricultural, engineering, and pre-medical students; (3) to offer students majoring in chemistry, geology, or biology the advantages of training in general physics as well as in certain specialized courses, bordering on their own fields, which may be of benefit to them; (4) to offer a thorough, well-rounded training to those who may elect physics as their major in a course of study leading to the bachelor of science or bachelor of arts degree. In this fourth category should be included those students who desire to prepare themselves for teaching positions in secondary schools, positions in the civil service requiring training in physics, scientific work with commercial companies, graduate work in this institution or in other institutions of higher learning.

The curriculum for the degree of bachelor of science, physics major, may be found at the beginning of *Arts and Sciences*.

The Department of Physics has for its exclusive use a lecture room with an apparatus room adjoining; three laboratories devoted wholly to the work in general physics; a light laboratory; an electrical measurements laboratory; a high-frequency laboratory; a photographic dark room; a shop, well equipped, for making and repairing apparatus. The various laboratories and the apparatus room are well equipped with apparatus of modern design and construction.

- 131x-2x. *Elements of College Physics*. Cr. 3 (2-3). Sems. I and II. (Formerly 131-2-3). A general survey of the entire field of physics; mechanics, heat, magnetism and electricity, sound and light. Important physical principles illustrated by class room demonstrations. Greater emphasis placed on the descriptive presenta-

tion of the subject matter than on the solution of problems. Primarily for arts and sciences, agriculture, home economics, and pre-medical students.

- 133x-4x. *Freshman Engineering Physics*. Cr. 3 (2-3). Sems. I and II. (Formerly 144-5). Mechanics, heat, electricity, and magnetism; demonstration lectures in sound and light. Emphasis on the solution of problems. Designed especially for engineering students, but may be taken by students in agriculture, and with the consent of the instructor, by arts and sciences, home economics, and pre-medical students.
- 211x-2x. *Physical Measurements*. Cr. 1 (0-3). Sems. I and II. Prerequisite: Phys. 131x-2x or registration therein. Experiments chosen from the field of mechanics, heat, electricity, magnetism, sound, and light. For those who desire more laboratory work than is given in general physics. Should be taken by all pre-medical students, preferably parallel with 131x-2x.
- 231x-2x. *Sophomore Physics*. Cr. 3 (2-3). Sems. I and II. (Formerly 241-2-3). Prerequisite: Phys. 133x-4x or its equivalent and freshman mathematics. The general field of physics; more advanced than the first year courses. Emphasis on the solving of problems. Required of all engineering students and of all others who make physics their major.
- 233x. *Teaching of Physics*. Cr. 3 (3-0). S. (Formerly 233). Prerequisite: One year of college physics; Ed. 131x-2x, or the equivalent. Demonstration lectures. Emphasis on the method of presentation of the subject matter and the construction and selection of inexpensive demonstration and laboratory equipment. Students required to make out a list of laboratory equipment for a high school physics laboratory. For students who plan to teach physics in high school.
- 331x. *Light*. Cr. 3 (2-3). Sem. I. (Formerly 336-7). Prerequisite: Phys. 131x-2x and calculus. The fundamentals of geometrical and physical optics; optical instruments and the reflection, refraction, dispersion, interference, diffraction and polarization of light.
- 332x. *Heat*. Cr. 3 (2-3). Sem. II. (Formerly 344). Prerequisite: Phys. 131x-2x and calculus. Thermometry; expansion; calorimetry; transference of heat; heat of chemical actions; change of state; heat properties of gases and vapors; first and second law of thermodynamics; adiabatic and isothermic transformation; and entropy.
- 333x-4x. *Electricity and Magnetism*. Cr. 3 (3-0). Sems. I and II. (Formerly 338-9). Prerequisite: Phys. 131x-2x and integral calculus. A mathematical treatment of the theory and appli-

cations of electricity and magnetism. An introduction to electron theory, power transmission, communication, conduction of electricity through gases, radioactivity, thermionics, photoelectricity, and X-rays.

423x-4x. *Electrical Measurements*. Cr. 2 (0-6). Sems. I and II. (Formerly 331-2). Prerequisite: Phys. 131x-2x and integral calculus. Methods, instruments and principles relating to measuring resistance, capacitance, inductance, and magnetism by direct and alternating currents. Vacuum tubes and photoelectricity. Calibration of electrical meters. Required of electrical engineering students.

433x. *Thermionic Vacuum Tubes*. Cr. 3 (3-3). Sem. I. (Formerly 441-2). Prerequisite: Phys. 333x-4x or an elementary knowledge of alternating current theory. A preliminary study of the dislodgement of electrons from solid substances and the physics of the thermionic valve. The tube considered from the standpoint of its use as a rectifier, an amplifier, an oscillation generator, and a detector of alternating current.

434x. *High Frequency Electrical Measurements*. Cr. 3 (3-3). Sem. II. Prerequisite: Phys. 333x-4x or an elementary knowledge of alternating current theory. The measurement of capacitance, inductance, and resistance at audio and radio frequencies; vacuum tube characteristics; wave form; and measurements on transmitting and receiving circuits.

435x-6x. *Introduction to Modern Physics*. Cr. 3 (3-0). Sems. I and II. Prerequisite: Phys. 231x-2x and calculus. Modern conceptions of the nature and property of matter; the corpuscular nature of radiant energy; X-ray; spectra; the periodic system; molecular structure; radioactivity; astrophysics.

511x-2x. *Physics Seminar*. Cr. 1 (1-0). Sems. I and II. (Formerly 511-12-13). Prerequisite: Consent of the instructor. Weekly reports by students and members of the staff on recent contributions in the field of physics appearing in various scientific periodicals. Given in alternate years; not given in 1934-35.

513x-4x. *Physics Seminar*. Cr. 1 (1-0). Sems. I and II. (Formerly 511-12-13). Prerequisite: Consent of the instructor. Similar to Phys. 511x-2x. Offered as an inducement to students to keep abreast of current advances in the field of physics during at least two years of their residence. Given in alternate years; given in 1934-35.

531x-2x. *Theoretical Physics*. Cr. 3 (3-0). Sems. I and II. (Formerly 531-2-3). Prerequisite: Consent of the instructor. Math-

emational treatment of fundamental laws, including some of the modern physics. Open to students of advanced standing.

533x-4x. *Mathematical Theory of Light*. Cr. 3 (3-0). Sems. I and II. (Formerly 534-5-6). Prerequisite: Phys. 331x and integral calculus. Geometrical and physical optics; a review of the classical and modern theories of light.

535x-6x. *Theoretical Mechanics*. Cr. 3 (3-0). Sems. I and II. Prerequisite: Consent of the instructor. Advanced mathematical treatment of the entire field of mechanics.

The following courses may be taken for graduate credit: 331x, 332x, 333x-4x, 423x-4x, 433x, 434x, 435x-6x, 511x-2x, 513x-4x, 531x-2x, 533x-4x, 535x-6x.

DEPARTMENT OF SPEECH

Professors Pirtle, Pendleton.

Training in the art of presenting one's thoughts to a group, of speaking effectively in public meetings, of thinking on one's feet, and of speaking extemporaneously are necessary parts of a college education. The college man or woman needs this training to meet adequately the demands which the world will make of him. Leadership requires ability as a speaker. The Department of Speech furnishes this training for all students of the College.

The department also provides instruction, in a broad way, for students who intend to enter the field of speech as a profession, for students of engineering, agriculture, and home economics who must sell their projects, and for students who desire to prepare themselves to take part in community affairs. Special courses are offered for students of business administration. There are courses planned to help the teacher who may be called upon to direct the various debate, play, and declamation contests. Corrective speech work is stressed, and clinics are conducted in connection with the Lubbock city schools. Extension courses for business and professional people are offered upon sufficient demand.

The following are courses for a major in Speech:

	Semester Hours
Speech 131x-2x. Fundamentals of Speech	6
Speech 233x. Voice and Diction	3
Speech 235x-6x. Argumentation and Debate	6
Speech 231x. Technique of Dramatic Art	3
Speech 232x. Rehearsal and Dramatization	3
Speech 421x. Problems in Speech Training	2
Speech 422x. Technique of Interpretation	2
Speech 431x. Advanced Public Speaking	3
Speech 432x-3x. Phonetics and Speech Correction	6

General Requirements:

English	18
Psychology	3
Sociology 231x-2x	6
History and Government	12
Science (Include Zoology 235x-6x)	12
(It is recommended that Physics 131x-2x be the second science offered).	
Foreign language	12
Mathematics 131x or 132x	3
Two years required physical education	4
Orientation	1
Electives to complete degree requirements	

The equipment for the department includes a stage and properties for the actual practice of theory. Here various speaking situations are created in order that the student may have practical experience in conducting and taking part in public affairs. A workshop is equipped with tools and materials for constructing stage sets and for the making of marionettes. A radio with local broadcasting unit is used for practice in radio speech.

- 131x-2x. *Fundamentals of Speech*. Cr. 3 (3-0). Sems. I and II. (Formerly 131-2). General speech education; practical training in public speaking. Stress placed upon the original speech. Completion of 131x satisfies the requirement for degrees in agriculture and in engineering.
- 233x. *Voice and Diction*. Cr. 3 (3-0). Sem. II. (Formerly 133x). 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.
- 235x-6x. *Argumentation and Debate*. Cr. 3 (3-0). Sems. I and II. (Formerly 221x-2x). Prerequisite: Govt. 131x-2x or enrollment in Government. Argumentation, analysis, evidence, per-

suasive speaking, and brief drawing. Class discussion and debate upon questions of present-day interest. Open to freshmen upon recommendation of the instructor. Both semesters must be completed before credit for graduation will be given. In case of seniors, credit may be given for 235x, provided this completes a year in Speech.

- 231x. *Technique of Dramatic Art*. Cr. 3 (3-0). Sem. I. (Formerly 031). Stage technique, make-up, plays for class production; principles of dramatic interpretation and characterization. Stress placed upon selection of plays and analysis of character.
- 232x. *Rehearsal and Dramatization*. Cr. 3 (3-3). Sem. II. (Formerly 032-034). Prerequisite: Speech 231x. The direction and production of plays, back stage organization, lighting and costuming; play writing and dramatization of literature.
- 311x. *Parliamentary Law*. Cr. 1 (1-0). Sem. II. (Formerly 111x). The theory and practice of the principal forms and rules of parliamentary procedure. Designed to prepare students to participate in, and preside over, meetings of organized groups.
- 321x. *Business Speech*. Cr. 2 (2-0). Sem. II. (Formerly 1314). Basic speech training and practice. The planning, construction, and delivery of the common types of informal speeches. The fundamental rules of parliamentary practice given in connection with the class work. For juniors and seniors in the Department of Economics and Business Administration.
- 333x. *Stagecraft and Marionette Construction*. Cr. 3 (3-0). Sem. I. (Formerly 233x). Prerequisite: Speech 231x-2x. Stagecraft and the construction of the modern auditorium; design and construction of stage models and sets. The second half of the semester used for the construction of marionettes and learning the technique of marionette performances.
- 421x. *Problems in Speech Training*. Cr. 2 (2-0). Sem. II. (Formerly 431). Prerequisite: 20 semester hours in Speech. Methods of teaching speech. Review of all phases of speech. A survey of the texts in speech; emphasis on making syllabi. Required of all majors in Speech.
- 422x. *Technique of Interpretation*. Cr. 2 (2-0). Sem. II. (Formerly 322x). Students are advised to take Speech 233x before entering this class. Practical application of the principles of oral interpretation. Various types of literature; emphasis on Shakespeare.
- 431x. *Advanced Public Speaking*. Cr. 3 (3-0). Sem. I. (Formerly 331x). Prerequisite: Speech 131x-2x. Methods of speech preparation and presentation; emphasis on the qualities and structure of an effective address; preparation of outlines and the presentation of formal speeches and addresses.

- 432x-3x. *Phonetics and Speech Correction*. Cr. 3 (3-0). Sems. I and II. (Formerly 332x-3x). Prerequisite: Speech 233x, and Zool. 235x-6x. Phonetics and its application to speech correction. Voice mechanism; speech difficulties, and the current methods of diagnosis and treatment. Clinics for children with speech defects conducted in the public schools of the city. Required of all majors in Speech. Recommended for students planning to teach.

BIBLICAL HISTORY AND LITERATURE

Dr. W. F. Fry.

Through the interest and cooperation of the Baptist General Convention of Texas certain courses in Biblical literature and history are offered to students in Texas Technological College. These courses carry college credit, a maximum of twelve semester hours being allowed in the Division of Arts and Sciences. Classes are held in suitable rooms near the College campus. The work is under the supervision of the Division of Arts and Sciences, subject to all the regulations governing other courses in the College.

- 137x-8x. *Old Testament and New Testament Survey*. Cr. 3 (3-0). Sems. I and II. (Formerly 137-8-9). A general acquaintance and working knowledge of the entire Bible.
- 234x. *The Life of Christ*. Cr. 3 (3-0). Sems. I and II. (Formerly 433). The separate incidents in the life of Christ in chronological and harmonic order. Supplementary lectures on the period between the Testaments. For freshmen and sophomores.
- 335x. *The Poetic Section of the Old Testament*. Cr. 3 (3-0). Sem. I. (Formerly 335). Analysis, interpretations, and the laws governing Hebrew poetry.
- 336x. *Building the Bible and between the Testaments*. Cr. 3 (3-0). Sem. II. Practical fields in the entire sweep of Biblical literature. Not open to freshmen.
- 431x. *The Prophets*. Cr. 3 (3-0). Sem. II. (Formerly 431-2). Certain of the prophetic books selected each year and carefully studied from the analytical, historical, and interpretative point of view. Open to juniors and seniors.

GRADUATE STUDY

All graduate work in Texas Technological College is confined to work toward the degrees of Master of Science and Master of Arts and toward professional degrees in certain branches of Engineering as are hereinafter noted, and is likewise confined to those departments whose staffs and facilities are adequate and qualified to give graduate work.

Graduate work requires that the candidate shall have obtained a bachelor's degree either at this institution or at some institution of equal rank and standing. To receive the master's degree such candidate shall complete not less than thirty-three semester hours of graduate work beyond the bachelor's degree, including a thesis, which shall be founded on a definite project of original research to be approved by the head of the major department and the Graduate Committee.

The object and aim of graduate study is to develop the powers of independent work and to promote and develop the creative spirit of research in the graduate student.

Facilities. The college library and laboratories of the various departments provide facilities for graduate work. New reference material is being added regularly to the Library, and the scientific equipment of the various laboratories of the College is being improved continually. Positions as graduate assistants are provided in some departments. These place the graduate students in direct contact with the best trained men on the staff and give opportunity for the development of graduate work.

Admission. To be admitted as a candidate for the master's degree a student must have received the bachelor's degree from Texas Technological College or a bachelor's degree from another college or university of equivalent standing. The institution from which the candidate comes must have held membership in a recognized association of senior colleges at the time the student was graduated. At the discretion of the Graduate Committee a candidate may be required to pass an examination as a prerequisite to admission as a candidate for the master's degree.

Candidacy for Master's Degree. A written application on a blank furnished by the Registrar must be made by the graduate student and approved by the Graduate Committee and the dean of the division concerned, before the student will be accepted as a candidate for a degree. This blank, when properly filled out, shows the entire course of study to be followed, the nature of the research to be pursued as a basis for the thesis, and the subject of the thesis.

This application must be filed with the Graduate Committee some time before the close of the semester or session prior to the one in which the degree is to be conferred.

Foreign Languages. In certain departments no candidate may receive a master's degree without meeting requirements in foreign languages.

Residence Requirements. An applicant for the master's degree must be a student in residence at this institution for a least thirty weeks, and, in addition, he must account for at least six more weeks of work in one of the following ways:

1. As a resident student at Texas Technological College.
2. As a resident student in some other college of equal rank.
3. As a student in extension courses offered by Texas Technological College in which a maximum of six semester hours may be made.

An applicant for the master's degree must complete all requirements for the degree within three years from the date of his enrollment for graduate study, except that a student in summer school only may have the time extended to five years.

In case a student is employed by the College, or is employed otherwise, the length of residence to complete the work may be increased proportionately. No member of the faculty or staff above the grade of instructor shall be eligible to receive a graduate degree from this college. No member of the faculty or staff will be eligible to receive a master's degree in less than three years of nine months or the equivalent and then only in case special arrangements are made. No person holding a graduate assistantship or fellowship will be permitted to complete the work for a graduate degree in less than two long sessions of nine months each, or the equivalent.

Amount of Work. The minimum amount of work beyond the bachelor's degree required for the master's degree is thirty-three semester hours and one year in residence. A maximum of six semester hours of graduate work or the equivalent may be accepted from another institution of equal rank. A maximum of seventeen semester hours of work may be carried in any one semester.

Major and Minor Subject. A candidate for the master's degree should complete a minimum of twenty-one hours in the major subject including the thesis. The remainder of the thirty-three semester hours of credit may be offered in one or two minor subjects, provided not less than six hours is offered in one subject. At least one

of the minors must be closely related to the major subject. Minor subjects must be approved by the department in which the major is taken.

Thesis. A thesis subject must be chosen as a part of the major subject, and a full outline of the research work to be undertaken as a basis for the thesis must be set forth and be approved by the Graduate Committee. Final copy of the thesis, unbound, with the signed approval of the thesis committee, head of the department, and dean of the division concerned must be presented for examination and approval of the Committee not later than fifteen days prior to graduation, and the final corrected copy with the cost of binding, not later than five days prior to graduation. Credit for the thesis will regularly carry a maximum of six semester hours. By vote of the Graduate Committee, this amount may be increased to nine semester hours, depending upon the extent and quality of the work to be done.

Courses. The courses which may be taken for credit toward the master's degree are of three kinds:

1. *Graduate Courses.* These courses are given only for graduate credit and cannot be taken for credit toward the bachelor's degree.

2. *Combined Courses.* These courses are regular graduate courses which are intended primarily for graduate students, but to which by special arrangement a few well qualified seniors are admitted for undergraduate credit.

3. *Advanced Undergraduate Courses.* These courses are regular senior courses—or, in some cases, junior or senior courses—intended primarily for undergraduate students, but to which by special approval of the Graduate Committee, graduate students may be admitted for credit. Only such courses as have not been taken by the candidate during his undergraduate work will be considered for approval by the committee.

Grades. No courses will be credited toward the master's degree if the grade is lower than B.

Credit. No course will be accepted for credit toward a master's degree unless such course has been approved for such credit by the Graduate Committee at the time of registering for such course.

Oral Examination. In addition to the regular written examinations, of which the department in which the subject taken is in charge, all candidates for the master's degree, on completion of their class work, laboratory work, and thesis, are subject to a general oral examination by the Graduate Committee and such members

of the staff as may be appointed for that purpose by the Graduate Committee. Such oral examination may cover all or any part of the work of the graduate student. The time of the oral examination is fixed by the Graduate Committee.

Professional Degrees. An Engineering graduate of Texas Technological College may become a candidate for a professional degree of which the following are available: Chemical Engineer, Civil Engineer, Electrical Engineer, Geological Engineer, Mechanical Engineer, Textile Engineer.

The requirements for any of these degrees include acceptable professional experience, a thesis, and an examination. Professional degrees in Engineering will be conferred only on the recommendation of the Graduate Committee and the faculty of the College.

A written application stating the degree desired must be submitted to the Graduate Committee not later than January 1, next preceding the date when the degree is to be conferred. This application shall include (a) a report or outline of the professional work upon which the application is based together with whatever documentary evidence may be considered pertinent, and (b) an outline of the thesis.

The professional work must comprise at least four full years subsequent to graduation, two years of which must have been in positions of responsible charge. In order to be accepted by the Graduate Committee the professional work must have been approved by the head of that department concerned and by the Dean of the Engineering Division.

Before submission to the Graduate Committee, the outline of the thesis must have been approved by the head of the department directly concerned. This thesis must constitute a distinct contribution to engineering, must be of an analytical character, and may not be merely a descriptive discussion of an engineering project nor a digest of engineering literature.

Master's degrees in Engineering will be accepted in lieu of two years of professional experience, but will not be considered as of responsible charge.

DEPARTMENT OF EXTENSION

J. F. McDONALD, DIRECTOR.

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

WORK

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, (5) group-study courses for clubs and societies, and lectures.

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 in college entrance units, (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 Bachelor of Arts degree, and one-half of the work required for a teacher's certificate may be done by correspondence study. Also certain courses in Agriculture, engineering, and home economics are available by correspondence. 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 of two semester hours is \$10, and of three semester hours, \$15. All fees are payable in advance and are 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 the average of two correspondence or extension class courses each semester.

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. At least one lesson each week should be sent to the instructor, in a correspondence course. The course should be completed within three to four and one-half months. A course of two semester hours may not be completed in less than thirty days. It must be begun within three months or become inactive. A fee of one dollar may be charged to restore it to the active list. The course expires at the end of twelve months.

8. Extension class courses for credit are the equivalent in time and content with the corresponding residence courses.

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 sends 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 when available 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.

The middle number of a course shows the credit given for the successful completion of the course, in semester hours. To illustrate:

The number "3" in Agronomy 131x shows a credit value of 3 semester hours. Courses may be taken on the quarter plan, also.

Agricultural Economics and Farm Management.

- 233x. Principles and Theories of Economics.
- 234x. Principles of Agricultural Marketing.
- 321x. Cooperation in Agriculture.
- 421x. Land Economics.
- 423x. Farm Management.

Agronomy.

- 131x. The fundamentals of Crop Production.
- 221x. Soils.

Animal Husbandry.

- 121x. Types and Market Classes of Cattle and Sheep.
- 122x. Types and Market Classes of Hogs, Horses, and Mules.
- 131x. Farm Poultry.
- 231x. Breeds of Livestock.
- 331x. Animal Nutrition and Principles of Feeding.

Dairy Manufactures.

- 131x. Principles of Dairy Manufacturing.

Horticulture.

- 131x. Plant Propagation.
- 231x. Vegetable Gardening.
- 322x. Landscape Appreciation.

Rural Sociology.

- 422x. Rural Sociology.

Bible.

- 137x-8x. Old Testament and New Testament Survey.
- 234x. The Life of Christ.
- 335x. The Poetical Section of the Old Testament
- 336x. Building the Bible and Between the Testaments.
- 431x. The Prophets.

Biology.

- 221x. Teaching of Biology.
- 231x. Heredity.

Chemistry.

- 330x. Teaching of Chemistry.

Drawing.

132x-3x. Engineering Drawing.

Economics and Business Administration.

222x-3x. Shorthand.

231x-2x. Principles of Economics.

233x. Economic Development of Europe.

234x-5x. Introduction to Accounting.

332x. Money and Banking

334x-5x. Business Law.

432x. Advertising.

Education: Freshman and Sophomore.

131x. Introduction to Education.

132x. Classroom Management and Methods.

133x. Methods in Elementary English.

229x. Rural Education.

231x. Educational Psychology.

232x. History of Education.

233x. School Health and Hygiene.

234x. Principles of Secondary Education.

235x. High School Methods.

236x. Kindergarten-Primary Education.

237x. English in the Primary Grades.

238x. Literature in the Primary Grades.

Education: Advanced.

320x. The Elementary Principal.

330x. The Elementary and High School Principals.

331x. Principles of Education.

332x. High School Problems.

3321x. Economic and Social Background of the Rural High School.

325x. The Junior High School.

334x. Foundation of Methods.

335x. Group Study.

336x. Educational and Vocational Guidance.

337x. Classroom Tests.

338x. Every Teacher's Problems.

421x. Directing Study.

422x. Texas Educational System.

431x. Education in the United States.

432x. Public School Administration.

433x. School Publicity.

434x. Supervision of Instruction.

435x. Extra Curricula Activities.

436x. The Curriculum.

Education: Psychology.

- 230x. Introduction to Psychology.
- 231x. Educational Psychology.
- 331x. Child Psychology.
- 332x. Advanced Educational Psychology.
- 333x. Measurement in Education.
- 335x. The Psychology of Adolescence.
- 337x. General Psychology.
- 431x. Mental Tests.

Education: Special Methods.

- 231x. Methods of Teaching Arithmetic.
- 221x. Methods of Teaching Biology.
- 230x. Methods of Teaching Chemistry.
- 233x. Methods of Teaching Physics.
- 330x. Teaching of History in the High School.
- 3310x. Methods of Teaching English in High School.
- 339x. Methods of Teaching Latin.
- 435x. Methods of Teaching Spanish.

English: Freshman and Sophomore.

- 131x-2x. Freshman Composition.
- 231x-2x. Introduction to Literature.
- 233x. Technical Writing.

English: Advanced.

- 332x. History of the English Language.
- 334x. American Drama From the Beginning to 1865.
- 335x. American Drama: 1865 to the Present.
- 337x. Grammar for Speech.
- 338x. American Poetry: Bradstreet to Whitman.
- 339x. American Poetry: Emily Dickinson to the Present.
- 3310x. The Teaching of English in the High Schools.
- 3311x. English in Business Practice.
- 3312x. Advanced Composition.
- 3313x. Contemporary English Poetry.
- 431x. Restoration and Eighteenth Century Drama.
- 432x. Shakespeare and the Background.
- 433x. Shakespeare Criticism.
- 434x. Milton.
- 435x. English Romanticism.
- 436x. English Romanticism (continued).
- 438x. Nineteenth Century English Prose.
- 439x. Contemporary Drama: Ibsen to Shaw.
- 4310x. English Poets of the Nineteenth Century.
- 4311x. English Poets of the Nineteenth Century (continued).

- 4312x. The Age of Johnson: Johnson and His Circle.
- 4313x. Literary Biography.
- 530x. The Contemporary Short Story.
- 531x. The American Novel.
- 532x. The English Novel: Lyly to Scott.
- 533x. Types of English and Foreign Fiction, 1825-1910.
- 5310x. The Structure of the Novel.

English: Journalism.

- 231x. Newspaper Reporting and Writing.
- 232x. Copy Reading and Headline Writing.
- 331x. Special Feature Articles.
- 332x. Magazine Article Writing.
- 333x. Problems of the Community Newspaper.
- 334x. Editorial Writing.
- 335x. History of American Journalism.
- 430x. Principles of Journalism.
- 431x. Critical Writing.
- 432x. High School Publications.

French.

- 131x-2x. A Beginning Course in French.
- 231x-2x. A Reading Course in French.
- 233x-4x. Scientific French.
- 331x-2x. Contemporary French Literature.

Geography.

- 122x. Economic Geography.
- 131x-2x. Principles of Geography.

Geology.

- 121x. Principles of Geology.

German.

- 131x-2x. A Beginning Course in German.
- 231x-2x. A Reading Course in German.
- 233x-4x. Scientific German.

Government.

- 131x. American Government, National.
- 132x. American Government, State.
- 231x. Introduction to Political Science.
- 232x. Modern Governments.
- 320x. American Government, National and State.
- 321x. American Government, National.
- 322x. American Government, State.
- 331x. Local Government.

- 332x. Local Administration.
- 333x. American Political Parties, Party Development.
- 334x. American Political Parties, Party Analysis.
- 431x-2x. American Constitutional Law.
- 435x-6x. International Law.

History.

- 131x-2x. History of Civilization.
- 133x-4x. Economic and Political History of England.
- 231x-2x. Economic and Political History of United States.
- 330x. Teaching of History in the High School.

Home Economics.

- 133x. Applied Arts: Elementary Design.
- 133x. Foods: Principles of Food Selection.
- 422x. Home Management: Family Relationships.

Latin.

- 131x-2x. A Beginning Course in Latin.
- 231x-2x. Reading and Composition.
- 233x-4x. Cicero's De Senectute and De Amicitia, The Phormio of Terrence, and The Odes of Horace
- 339x. Methods of Teaching Latin.

Library Training.

- (In cooperation with University of Minnesota).
- 121x. Elementary Classification.
- 122x. Elementary Cataloging.
- 123x. Elementary Reference. (Access to Library Required).

Mathematics.

- 101x. Solid Geometry.
- 121x-2x. Algebra (Engineering)
- 130x. Algebra (Liberal Arts).
- 132x. Analytics.
- 135x. Mathematics for Students of Home Economics.
- 137x-8x. Business Mathematics.
- 221x. Teaching of Arithmetic.
- 231x-2x. Mathematics for Students of Agriculture.
- 233x. Application of the Calculus.
- 235x-6x. Analytic Geometry.
- 237x. Mathematical Theory of Life Insurance and Bonds.
- 238x. Elementary Principles of Statistics and Economic Problems.
- 251x. Differential and Integral Calculus.
- 321x. Elementary Differential Equations.
- 332x. Theory of Equations.

Music.

- 121x-2x. Band Conducting and Methods*
- 221x-2x. Band Conducting and Methods*
- 131x-2x. Elementary Music.
- 231x-2x. Elementary Harmony.
- 331x-2x. Counterpoint and Composition.

Philosophy.

- 231x. Elements of Ethics.
- 232x. Logic.
- 233x. Introduction to Philosophy.
- 332x. The History of Philosophy.

Physical Education.

- 230x. Principles of Health Education.
- 333x-4x. Methods in Elementary Physical Education.
- 335x-6x. Methods in Secondary Physical Education.
- 337x. History of Physical Education.

Physics.

- 233x. Teaching of Physics.
- 333x-4x. Electricity and Magnetism.

Sociology.

- 231x. Introduction to Sociology.
- 232x. Advanced Sociology.
- 331x. Social Pathology.
- 332x. Rural Sociology.

Spanish.

- 131x-2x. A Beginning Course in Spanish.
- 231x-2x. Grammar, Reading, and Compositions.
- 331x-2x. Contemporary Literature.
- 333x-4x. Commercial Spanish.
- 435x. Teachers' Course in Methods of Teaching Spanish.
- 436x-7x. Advanced Grammar and Composition.

CORRESPONDENCE COURSES TO MEET COLLEGE ENTRANCE
REQUIREMENTS

The following college entrance courses are now available, the fee for each being usually \$10, payable in advance.

Agriculture, $\frac{1}{2}$ to 1 unit.

Bookkeeping, $\frac{1}{2}$ to 1 unit.

*Correspondence and Consultation.

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.

Commercial Arithmetic, $\frac{1}{2}$ unit.
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, $\frac{1}{2}$ unit.
Trigonometry, $\frac{1}{2}$ unit.

Spanish, 1 to 2 units.

Typewriting, $\frac{1}{2}$ unit.

EXTENSION CLASS INSTRUCTION

Extension classes are 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 available. The fee is \$15.00 per semester. Those interested in securing centers should communicate with the Director of Extension.

NIGHT CLASSES ON THE COLLEGE CAMPUS

Night classes, meeting once or twice a week, as may be arranged, are organized upon the request of a reasonable number, usually ten. Both graduate and under-graduate courses are available. In some instances both credit and non-credit courses are given. The credits will count as residence credits, and will satisfy degree or certificate purposes. The fee for any subject is generally \$15.00 per semester. A laboratory fee is charged for the laboratory sciences.

GROUP-STUDY INSTRUCTION

This service includes study outlines, package libraries for reference, and lectures. Details are given upon request.

FURTHER INFORMATION

For further information in regard to extension courses, write the Director of Extension, Texas Technological College, Lubbock, Texas.

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 other semesters. Summer session attendance has steadily grown from 336 the first year to more than 1800 in 1934. The entire College plant is available for use, and many of the regular faculty, assisted by various 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 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 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 impractical 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. 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.

Courses are offered both terms by which a teacher's certificate of any class may be extended for one year, provided the certificates expire 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.

THE 1935 SUMMER SESSION

The summer session of 1935 will open Monday, June 10. The description of the courses offered as well as details concerning the staff will be published in the Summer Session number of the College Bulletin for April, 1935. This bulletin may be obtained by writing to the Registrar of the College.

ENROLLMENT

REPORT OF ENROLLMENT FOR THE YEAR,
1933-34

(LONG SESSION)

	Fresh- men	Sopho- mores	Juniors	Seniors	Grad- uates	Totals
Agriculture	91	67	30	29	10	227
Engineering	184	115	53	67	0	419
Home Economics	115	67	32	27	0	241
Business Administration	175	102	33	25	4	339
Education	51	53	32	27	5	168
Sciences	96	88	43	24	18	269
General	284	217	114	66	17	698
Totals	996	709	337	265	54	2361

REPORT OF ENROLLMENT FOR THE SUMMER
SESSION 1933

	Fresh- men	Sopho- mores	Juniors	Seniors	Grad- uates	Totals
Agriculture	11	24	19	10	9	73
Engineering	14	30	13	26	0	83
Home Economics	19	54	34	34	0	141
Business Administration	18	22	12	9	2	63
Education	53	104	68	42	37	304
Sciences	31	33	40	28	17	149
General	94	167	94	55	65	475
Totals	240	434	280	204	130	*1288

EXTENSION

Enrollment in Extension Classes	503
Enrollment in Correspondence Courses	733
Totals, June 1, 1933 to June 1, 1934	1236

*Note: Summer Session enrollment 1934 to July 27 (subject to further additions) is 1833.

SHORT COURSES, 1933-34

Agriculture Short Courses	1375
Coaching School	350
Cotton Classing	20
Home Economics Nursery School	32
Totals	1777
Grand Total for the Year	6662

Other Services by Division of Agriculture 1933-34

Meetings and Conferences Sponsored by Departments:

Agricultural Economics and Farm Management	375
Animal Husbandry	234
Dairy Manufactures	320
Plant Industry	200
Vocational Agriculture	194
Totals	1323

ATTENDANCE 1925—1934*

Year	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	820	4206
1929-30	2353	1316	1098	4767
1930-31	2319	1556	1227	5102
1931-32	2155	1606	1011	4772
1932-33	2332	1288	833	4453
1933-34	2361	**1833	1236	**5430

*Does not include short courses.

**Summer Session 1934 as of July 27, 1934, subject to further additions.

DEGREES CONFERRED 1925-1934*

Division of Agriculture

Bachelor of Science	133
Master of Science	3

Division of Engineering

Bachelor of Science	188
---------------------------	-----

Division of Home Economics

Bachelor of Science	123
---------------------------	-----

Division of Arts and Sciences

Bachelor of Business Administration	50
Bachelor of Arts in Education	194
Bachelor of Arts in Sciences	261
Bachelor of Arts in Social Sciences	166
Bachelor of Arts in Languages and Music	277
Bachelor of Science in Education	2
Master of Arts	117
Master of Science	1
Doctor of Law	1

*This does not include graduates for August 1934.

HONORS 1933-34

SCHOLASTIC STANDING OF SENIORS

Senior Having Highest Scholastic Standing

H. Houston Hinson, Lubbock, Texas—91.9—Division of Engineering.

Seniors Having Highest Scholastic Standing

Division of Engineering—H. Houston Hinson, Lubbock, Texas—91.9.

Division of Agriculture—T. L. Leach, Brownwood, Texas—90.7.

Division of Arts and Sciences—Floy Farrar Wilbanks, Walnut Springs, Texas—90.5.

Division of Home Economics—Mary Leidigh, Lubbock, Texas—87.9.

Highest Scholastic Standing for Senior Who Has Done All Work At Texas Technological College

H. Houston Hinson, Lubbock, Texas—91.9—Division of Engineering.

Margaret Lindsey, Lubbock, Texas—90.1—Division of Arts and Sciences.

Mary Leidigh, Lubbock, Texas—87.9—Division of Home Economics.

Wilson Weddle, Bonham, Texas—86.0—Division of Agriculture.

Highest Scholastic Standing for Senior Who Transferred Work To Texas Technological College

T. L. Leach, Brownwood, Texas—90.7—Division of Agriculture.

Floy Farrar Wilbanks, Walnut Springs, Texas—90.5—Division of Arts and Sciences.

Hortense Hicks, Roswell, New Mexico—90.4—Division of Arts and Sciences.

Evaughn Clack, Durant, Oklahoma—87.6—Division of Home Economics.

Henry Godeke, Lubbock, Texas—86.4—Division of Engineering.

Outstanding Work in English
Freshman Classes

MEN—Jack Garlington, Brownfield, Texas; Billy Phillips, Hereford, Texas.

WOMEN—Lora Lee Weddle, Bonham, Texas; Laura E. Stokes, Bonham, Texas.

Sophomore Classes

MEN—Casey Kunkel, Lubbock, Texas.

WOMEN—Hermono Shadle, Aspermont, Texas; Weta Spykes, Hermleigh, Texas.

Advanced Classes

WOMEN—Anna Mary Baucom, Lubbock, Texas; Eleanor Simmons, Lubbock, Texas; Evelyn Gullledge, Lubbock, Texas.

DEGREES CONFERRED 1932-33

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

JUNE 5, 1933

DIVISION OF AGRICULTURE

Degree of Bachelor of Science in Agriculture

	Major Study
Roe Bavousett, Snyder	Dairy Manufactures
Russell Bean, Lubbock	Horticulture
G. L. Beene, Roby	Agronomy
Buford Browning, Fluvanna	Animal Husbandry
E. G. Cauble, Jr., Stiles	Agriculture Economics
Horace Cullen Dean, Dawson	Dairy Manufactures
Fred DeLashaw, Ivanhoe	Agricultural Economics
Gerald G. Gordon, Lubbock	Dairy Manufactures
Lanoy Nelson Hazel, Spur	Animal Husbandry
Chester Hufstедler, Springtown	Agronomy
W. F. Hughes, Channing	Horticulture
Robert Phillip Huser, Granger	Dairy Manufactures
Ben Hill Jenkins, Gail	Dairy Manufactures
John Templeton Kennon, Godley	Animal Husbandry
Milton L. Kirksey, Lorenzo	Dairy Manufactures
Edgar Kuebel, Spring Branch	Animal Husbandry
James Walter Potts, Lubbock	Agronomy
James Bryan Stine, Amarillo	Dairy Manufactures
Curtis Boyd Williams, Lubbock	Dairy Manufactures
Painter Colquitt Wylie, Valley View	Horticulture

DIVISION OF ENGINEERING

Degree of Bachelor of Science in Architectural Engineering

Albert Carlton McAdams	Gordonville
------------------------------	-------------

Degree of Bachelor of Science in Civil Engineering

Herbert Eugene DeShazo	Lubbock
Ordis Eldon Forbess	Lubbock
James Fenton Harding	Dallas
Arch L. King	Lubbock
James Duane Orr	Hereford
Travis J. Parker	Lubbock
John Phillip Ruhmann	Ballinger

Degree of Bachelor of Science in Electrical Engineering

Ralph Thomas Brandenburg	San Antonio
J. Preston Conner	Lubbock
Walter Andrew Cox	Abilene
Lawrence P. Magee	Lubbock
Willard M. Nott	Waco
Arthur Conrad Waghorne	Lubbock
Charles Lee Willie, Jr.	Tyler

Degree of Bachelor of Science in Geological Engineering

Howard F. Hopkins	Ladonia
-------------------------	---------

Degree of Bachelor of Science in Mechanical Engineering

Miles Roger Clapp	Childress
Robert Edwin Drake	Kress
C. Eugene Edwards	Fort Worth
John Samuel Hopper	Wellborn
John N. Jacobsen, Jr.	Hereford
J. Alton Miller	Hereford
James Rolin Renfro	Lubbock
George Elton Smith	Longworth
William Tillman Stitt	Fort Worth
Donald A. Weilenman	Amarillo

Degree of Bachelor of Science in Textile Engineering

William Basil Hill	Lamesa
--------------------------	--------

DIVISION OF HOME ECONOMICS

Degree of Bachelor of Science in Home Economics

	Major Study
Lesey Lavenia Bullock, Lubbock	Foods and Nutrition
Helen Ruth Carter, Lubbock	Home Economics Education
Emma Chapman, Lubbock	Foods and Nutrition
Ruth Elizabeth Hearrell, Lubbock	Home Economics Education
Veralee Jones, Tulia	Home Economics Education
Novis Lewis, Lubbock	Clothing and Textiles
Melba Tatom Maxey, Lubbock	Clothing and Textiles
Christova Sawyer, Brownfield	Clothing and Textiles
Effie Smith, Crosbyton	Home Economics Education
Laura Larkune Song, Chung San, Korea	General Home Economics
Leona H. Wharton, Lubbock	Clothing and Textiles

DIVISION OF ARTS AND SCIENCES

Degree of Bachelor of Business Administration

Dick Slaton Carter	Plainview
Seth Barton Cox	Stamford
Raymond E. Dunn	Slaton
Milo Manning Feierabend	Amarillo
William Russell Fickas, Jr.	Lubbock
Harry C. Hazel	Spur
Clarence Maurice Reed	Corsicana
Marvin Clarence Renfro	Lubbock
Joe Fulton Taylor	Amarillo
Clifford Dayle Vannoy	Lubbock
Lula Terrie Watson	Lubbock
Thomas Hugh Williams	Comanche

Degree of Bachelor of Arts in Education

Virginia Thomas Bacon	Lubbock
Mary Louise Baskin	Lubbock
Juanita Helene Beard	Lubbock
Opal Gladys Butler	Lubbock
Eva Mamie Deering	Olive, New Mexico
Jewel Naoma Hammock	Sudan

Beula May Hatton	McKinney
Ola Irene Hughes	Lubbock
Eava May Murphree James	Idalou
Martha Lee Gregg Mathis	Lubbock
William Kary Mathis	Lubbock
Ada Iris Myers	Cleburne
Nell Taylor Farnley	Strawn
William Elwood Patty	Lubbock
Ernestine Elizabeth Reynolds	Lubbock

Degree of Bachelor of Arts—Sciences

	Major Study
John Hugh Beauchamp, Greenville	Economics
Cecil Alonzo Bickley, Lubbock	Economics
William Bacon Caldwell Lubbock	Economics
Sarah Evelyn Carson, Stamford	Economics
Allie Rae Collins, Claude	Economics
Charles Lewis Cromwell, Stephenville	Chemistry
John Lake Dean, Jr., Crockett	Zoology
Campbell Hill Elkins, Lubbock	Economics
J. Charles Featherstone, Petersburg	Mathematics
Jack Jefferson Flowers, Big Spring	Geology
Cecil Hughes Gilliam, Lubbock	Chemistry
Joseph Leslie Hall, Slaton	Zoology
James Renfro Henley, Brownwood	Chemistry
Fred John Hinger, Endee, New Mexico	Chemistry
Murray Linden Holcomb, El Campo	Mathematics
John Jackson Hopper, Lubbock	Zoology
Clyde Wolfe James, Lubbock	Economics
Philip Marion James, Lubbock	Chemistry
Alfred J. Jensen, Clifton	Chemistry
Harrison Munroe, Abilene	Chemistry
Ernest Nelson, Lubbock	Economics
Maurine Patten, Dallas	Mathematics
Malcolm Logan Patterson, Big Spring	Geology
Warren Powers, Lubbock	Economics
Ruth Winton Reed, Lubbock	Botany
Margaret Carroll Robertson, Lubbock	Physics
Allen Bryan Seale, Eastland	Economics
Frederick F. Seely, Englewood, Colo.	Chemistry
Alexander Taylor, Tahoka	Physics
Fleta Tunnell, Stephenville	Botany
Mary Elizabeth Warren, Cleburne	Economics
Raymah Wilburn Wheeler, Lubbock	Mathematics
Roberta Willingham, Lubbock	Mathematics

Degree of Bachelor of Arts—Social Sciences

	Major Study
Victor Cecil Bearden, Lamesa	History
Manuel C. DeBusk, Idalou	Government
Leona Marguerite Gelin, Lubbock	History
Julia Margaret Harmon, Idalou	History
George Truett Hatton, Abilene	History
Basil Hudson, Westbrook	History
Lela DeBorah Puryear, Lubbock	History
Carl Nathaniel Roth, Wilson	History
John Doyle Settle, Abernathy	Government
Mary Olive Spring, Friona	Government
Pauline Newton Sumner, Idalou	History
John Edward Vickers, Lubbock	History
John C. Williamson, Lubbock	History
Arthur Clyde Woodburn, III, Portales, N. M.	History
Clarence Ervin Woods, Lubbock	History

Degree of Bachelor of Arts—Languages and Music

	Major Study
Florence Jones Ashmore, Coleman	English
Roscoe Irvin Bayless, Lubbock	Speech
Hazel Aleen Brown, Ackerly	Speech
William Boyd Bush, Greenville	Journalism
Lois Lataine Butler, Lubbock	English
Eunice Lorraine Cone, Lubbock	Spanish
Hester Kelsey Cooper, Lubbock	Latin
Ione Dodson, Whitney	Spanish
Augusta Maye Foster, Lockney	Music
Edyth LaVerne Garrison, Lubbock	French
Louise Garrison, Lubbock	French
Gertrude Harriette Hofmann, Carrollton	Speech
Mart Woodson Jones, Seagraves	English
Agnes Louise Klein, Los Angeles, Calif.	Spanish
Mary Katherine McGlothlin, Lubbock	English
Ellis McCullough Mills, Lubbock	English
Carolyn Poe, Harrisonville, Mo.	Music
Marie Emeline Price, Lubbock	Music
John Stephen Rankin, Kenna, N. Mex.	English
Gaster Randal Spencer, Lubbock	English
Rob Mauriece Tipps, Lubbock	Speech
Frediee DeCell Weathers, Big Spring	English
Genelle Wilhite, Lubbock	Spanish

Degree of Master of Arts

- Alma Alland Caldwell, Chicota; B. A., Texas Technological College; English, thesis—"A Critical Analysis of Browning's 'The Inn Album.'"
- James Tillman Carter, Happy; B. A., McMurry College; History, thesis—"The Land Problem of the Matador Ranch."
- Roy Canon Clements, Lubbock; B. B. A., Texas Technological College; Economics, thesis—"The Position of Stock Holders in Texas State Banks."
- Cecil Hardee Connell, Artesia Wells; B. S., North Texas State Teachers College; Chemistry, thesis—"Investigation of the Natural Waters of North and West Texas for Fluorine Content."
- Terence Vedder Crounse, Perrin; B. A., North Texas State Teachers College; Philosophy and Sociology, thesis—"Review of Credos of Modern Philosophers."
- Joseph Martin Jackson, Houston; B. A., Texas Technological College; Economics, thesis—"Accounting Problems Peculiar to Cotton Gins."
- Robert Parker, Lucille, New Mexico; B. A., Texas Technological College; Mathematics, thesis—"Methods of Curve Fitting."
- M. Frank Stephens, Shallowater; B. A., Texas Technological College; Education, thesis—"The Status of High School Science Teachers of the Accredited and Classified Public High Schools of Texas."
- William Ezra Street, Lubbock; B. A., Texas Technological College, Education, thesis—"Drawing in Texas High Schools."
- Gordon Treadaway, Lamesa; B. A., Texas Technological College; Government, thesis—"Minor Party Activity in Presidential Campaign of 1932."

AUGUST 23, 1933

DIVISION OF AGRICULTURE

Degree of Bachelor of Science in Agriculture

	Major Study
M. C. Brandon, Alexander	Animal Husbandry
Tom Lee Easley, Seymour	Agronomy
Robert Henry Gooch, Lubbock	Agricultural Economics
Glenn T. Hackney, Pickton	Animal Husbandry
John Lane Shepard, Lubbock	Animal Husbandry

DIVISION OF ENGINEERING

Degree of Bachelor of Science in Architectural Engineering

Wyatt R. Underwood, Jr.	Bartlett
------------------------------	----------

Degree of Bachelor of Science in Electrical Engineering

Kitt Porter Green	Graford
James Hershel Tadlock	Amarillo
James Robert Wayland	Plainview
Alpha Milton Wiggins	Lubbock

Degree of Bachelor of Science in Geological Engineering

James Oran Sanders	Big Spring
--------------------------	------------

Degree of Bachelor of Science in Mechanical Engineering

(Chemical Engineering Option)

Blair LaVergne Manire	Slaton
-----------------------------	--------

Degree of Bachelor of Science in Textile Engineering

Lloyd Scarborough Reeves	Dallas
--------------------------------	--------

DIVISION OF HOME ECONOMICS

Degree of Bachelor of Science in Home Economics

	Major Study
Girdy Pearl Beard, Rule	Clothing and Textiles
Ella Mae Blanton, Ralls	Home Economics Education
Alma DeShazo Bresler, Lubbock	Foods and Nutrition
Geraldine Clewell, Waco	Home Economics Education
Velma Copeland, Bowie	General Home Economics
Imogene Couch, Gustine	Home Economics Education
Nancy Carolyn Dixon, Bellevue	Home Economics Education
Nora Ellen Elliott, Dumas	Home Economics Education

Margaret Elizabeth Underwood Fisher, Shallowater	Clothing and Textiles
Mable Leslie Maggard, Hale Center	Home Economics Education
Hazel Willie Price, Lubbock	Home Economics Education
Delene Reid, Clyde	Home Economics Education
H. Duncan Simmons, Lubbock	Foods and Nutrition
Lillie Mina White, Stephenville	General Home Economics

DIVISION OF ARTS AND SCIENCES

Degree of Bachelor of Business Administration

Aud Felton Darr	Melrose, N. Mex.
Lois Elizabeth Hall	Quitaque
Cecil Glenn Kersey	Amarillo
Ebbie Lee	Lamesa
Jackie Lucille Rogers	Plainview
Henry Chester Williams	Clarendon

Degree of Bachelor of Arts in Education

Leslie Van Burgess	Lubbock
Mary Alice Floore	Fort Worth
Velma Pendleton Foster	Lubbock
Verna Voncile Gilkerson	Lubbock
Mary Evelyn Gordon	Albany
Claud Lee Hale	Lubbock
Enos Wood Harper	Wellington
Mary Maurine Henderson	Lubbock
Vivian Nadine Keaster	Lubbock
Glenna Louise Keller	Lubbock
Elsie Derrick Kerr	Lubbock
Ernestine Kimbrough	Athens
Alma Earp Parrack	Lubbock
Juanita Price	Lubbock
Catherine Tinney Russ	Sunset
Louise Stinson Sneed	Dalhart
Ethel Elizabeth Thurman	Cisco
Frances Elizabeth Young	Bowie
Nell Elizabeth Young	Bowie

Degree of Bachelor of Arts—Sciences

	Major Study
Glenn Lee Allison, Clarendon	Economics
Glenn Dobkins, Roaring Springs	Economics
Marcus Homer Duncan, Jr., Lubbock	Economics
Lynn Gray Gordon, Lubbock	Chemistry
Douglas Donald Henson, Lubbock	Chemistry
Harvey Knight Jackson, Roaring Springs	Chemistry
Roger Seaman Knapp, Lubbock	Biology
Joe Winford Lang, Kress	Geology
Carl Elmer McClain, Lubbock	Mathematics
John Remsberg Mast, Lubbock	Chemistry
John W. Palmore, Ravenna	Economics
Leland Dixon Payne, Eddy	Economics
Shelby Graham Read, Henderson	Geology
Warren W. Richeson, Boonville, Ind.	Mathematics
Carl Pembroke Rogers, Houston	Geology
Virgil Rowland, Anton	Economics
Thomas Henry Stewart, Jr., Lubbock	Chemistry

Degree of Bachelor of Arts—Social Science

Corene Murray Adams, Lubbock	History
Hubert Uleus Butts, Quanah	History
Charles Louis Cobb, Lubbock	Government
William Alfred Holeman, Lubbock	Government
Martha Belle Logan, Lubbock	History
Anna Louise Lupton, Shallowater	History
Katherine Frances Lupton, Shallowater	Government
Anna Juanita Pool, Lubbock	Government
Rowena Turner, Lubbock	History

Degree of Bachelor of Arts—Languages and Music

Opal Louise Creighton, Abilene	Journalism
Josephine Penn Douglas, Lubbock	English
Margaret Ruth Dunlop, Lubbock	English
Carl Henry Harper, Lubbock	English
Jean Shelley Jennings, Lubbock	English
Georgia Knight, Lubbock	Latin
Ola Opal Montgomery, Lubbock	Spanish
Nellia Viola Morgan, Spur	English
Dorothy Olsen, Seymour	Spanish
Johnnie Mae Patterson, Plains	English
Margaret Dell Prim, Snyder	English
Dorothy Glyn Rushing, Lubbock	Speech
Mary Elizabeth Sheely, Lubbock	Journalism
Maudie McLaury Smith	English

Degree of Master of Arts

- Martin L. H. Baze, Pampa; B. A., Abilene Christian College; Education, thesis—"An Educational History of Lynn County."
- Jenie Lee Burke, Jr., Hobbs, New Mexico; B. S., West Texas State Teachers College; Education, thesis—"Personnel Study of Municipal School Board Members in New Mexico."
- James Boyce Caldwell, Chicota; B. A., Texas Technological College; Education, thesis—"History and Present Legal Status of Independent School Districts Created by General Laws in Texas."
- James C. Chamberlain, Mineral Wells; B. A., West Texas State Teachers College; History, thesis—"The Two-Thirds Rule in the State Democratic Convention."
- John A. Copeland, Brownwood; B. A., Daniel Baker College; English, thesis—"A Study of the Phases of Sentimentality in the Major Works of Laurence Sterne."
- William Lloyd Croslin, Lubbock; B. A., Texas Technological College; Government, thesis—"Democratic Party Machinery in Texas."
- Gideon S. Dówell, Dickens; B. A., East Central State Teachers College; Education, thesis—"An Educational Survey of Dickens County with Special Reference to Re-grouping."
- Lois Iwilda Freeman, Lubbock; B. A., Texas Technological College; Spanish, thesis—"The Didacticism of Fernan Caballero."
- Anne L. Hammons, Gordon; B. A., Texas Technological College; History, thesis—"West Texas and the State Constitutional Convention of 1875."
- George Alexander Heath, Friona; B. A., West Texas State Teachers College; Education, thesis—"The Present Status of the Elementary School Principal in Texas."
- Catherine Elizabeth Heierman, Imperial; B. A., Texas Technological College; English, thesis—"The Art of the Scop as it Appears in the Beowulf."

-
- Roy Lee Hooten, Shallowater; B. A., Texas Technological College; Government, thesis—"The Forty-Third Legislature of Texas."
- Virginia Lee Hufstedler, Lubbock; B. A., Texas Technological College; History, thesis—"A Study of the Activities of the Church of Christ in Lubbock County, 1890-1925."
- Artle J. Lynn, Oklaunion; B. S., North Texas State Teachers College; Mathematics, thesis—"Mathematics Requirements in the United States."
- Ernest Nelson, Lubbock; B. A., Texas Technological College; Economics, thesis—"Methods of Cost-Finding in Textile Mills."
- James Bryan Speer, Morse; B. A., West Texas State Teachers College; Education, thesis—"Janitor Service in Texas Public Schools, 1932-33."
- Sylva Mary Wilson, Lubbock; B. A., Texas Technological College; Education, thesis—"The Training and Duties of Deans of Women of Texas Colleges."

REGISTER OF STUDENTS

1933-34

ABBREVIATIONS

A—Agriculture	1—Freshman
B—Business Administration and Economics	2—Sophomore
E—Engineering	3—Junior
Ed—Education	4—Senior
G—General	5—Graduate
H—Home Economics	
S—Science	

Classifications are based on the student's classification as follows:
long session 1933-34 as of February, 1934; summer of 1933 as at entrance.

Abbott, Fred, 1Ed	Rule	Applewhite, Helen, 2Ed	Tahoka
Abbott, Lavell, 4E	Lubbock	Appling, Artelle, 3Ed	Ft. Worth
Abernathy, Agnes, 3H	Lubbock	Archer, Dan, 1B	Spearman
Abington, Edward Gordon, 2S	Childress	Archer, H. E., 2B	Cisco
Adair, Lois, 1G	Lubbock	Armbruster, Walter, 3B	Dallas
Adams, Donny Lou, 2G	Lubbock	Armstrong, Anice Estelle, 1H	Idalou
Adams, Douglas Surrey, 1G	Lubbock	Armstrong, Edna, 1H	Lorenzo
Adams, J. C., 3A	Wheeler	Armstrong, J. W., 1E	Lubbock
Adams, Joseph Dedley, 1E	Levelland	Armstrong, Nell, 1H	Iraan
Adams, Madge, 1S	Lubbock	Armstrong, Ursel S., 4S	Panhandle
Adamson, Nadene Vera, 2Ed	Post	Arnett, Morrison, 1E	Lubbock
Aldkins, Freddie Opal, 4H	Lubbock	Arnold, Alfred Richard, 1G	Lubbock
Adkisson, Alberta, 2Ed	Abernathy	Arnold, J. Alton, 1G	Turkey
Adkisson, Alice, 1G	Abernathy	Ashby, Letha, 4G	McLean
Adkisson, Ella B., 3Ed	Abernathy	Atcheson, James Edward, 4E	Lubbock
Adkisson, Wilma, 1H	Abernathy	Ater, Ruby Lee, 2H	Lubbock
Agee, John, 1E	Lubbock	Atkinson, Atmar, 3E	Anton
Albin, Julia Mae, 1S	Spur	Austin, Dennis T. Jr., 4E	Mt. Pleasant
Alcorn, Arnold, 1E	Slaton	Austin, F. C., 2E	Lubbock
Alexander, Alma, 4Ed	Lubbock	Austin, Lindsay, 2G	Lubbock
Alexander, Carlos Paul, 1E	Lamesa	Avery, Vennis, 1H	Lubbock
Alexander, Jack, 2S	Jayton	Aycock, Edward F., 2B	Midlothian
Alexander, James Herbert, 1E	Wolforth	Ayers, Cecil, 2A	Chillicothe
Alexander, Mary Elizabeth, 4G	Lubbock	Ayers, James L., 2E	Shallowater
Alexander, Maurine, 2E	Cleburne	Ayers, Laurette, 1H	Chillicothe
Alford, Morris, 1B	Slaton	Ayers, Manuel, 2A	Shallowater
Aldredge, James T., 5S	Lubbock	Ayres, Jean, 4G	Floydada
Allen, Helen, 1H	Tahoka	Baccus, C. Roy, 1B	Sudan
Allen, Inez, 3G	Lubbock	Baccus, Doyle, 1S	Sudan
Allen, Milford, 1S	Lubbock	Bacon, Naomi Idell, 2G	Lubbock
Allen, Robbie, 4G	Elida, N. Mex.	Bagwell, Evelyn, 2H	Claude
Allensworth, Hubert, 4G	Lubbock	Bagwell, Marshall, 4E	Lubbock
Allison, Lea Pascal, 1A	San Angelo	Bailey, Bruce, 1E	Plainview
Allison, Paul Raleigh, 3B	Benbrook	Bailey, Eleanor, 2Ed	Wolfarth
Alsobrook, Earl Wilson, 1E	Lamesa	Bailey, Frank Jr., 1E	Ft. Worth
Altman, Earnest Eugene, 1A	Lubbock	Bailey, Herbert Leon, 2E	Lubbock
Ammons, Johnnie, 2G	Roby	Bailey, J. C., 1E	Dumont
Anderson, Dixie Vernon, 2E	Lufkin	Bailey, Lois Christine, 4B	Spearman
Anderson, Florence, 2G	Lubbock	Bailey, Melvin Daniel, 1B	Lubbock
Anderson, George Grafton, 1B	Lubbock	Bailey, Oleta, 3G	Dumont
Anderson, Helen, 2E	Amarillo	Bailey, Seldon, 1E	Quitaque
Anderson, Margaret, 2H	Post	Bain, Woodrow, 1E	Lubbock
Ansley, Mary, 3S	Lubbock	Baird, Hubert Carson, 3S	Vernon
		Baker, Adria Florene, 3G	Lubbock

Baker, Coleta Joy, 3G	Lubbock	Benn, Margarette Ann, 2H	
Baker, Elva, 4A	Abilene		Abernathy
Baker, Lillian Ruth, 1Ed	Lubbock	Benn, Owen, 4A	Abernathy
Baker, Thelma Lorine, 1H	Lubbock	Bennett, Erma Ruth, 1E	Lubbock
Ball, Gordon E., 2G	Cleburne	Bennett, James L., 2A	Ft. Worth
Ball, John Sigler, 4E	Lubbock	Benson, Frances Ruth, 4S	Lubbock
Ballard, Frances, 1H	Lubbock	Benson, Horace Shelton, 2E	El Paso
Ballenger, Felix, 4S	Lubbock	Benson, Raymond, 2E	Lubbock
Bankston, Clifton, 2G	Canyon	Benton, Addie Brown, 2G	McKinney
Banta, David Alfred, 3S	Bellaire	Beran, Alvina Ruth, 3H	Lubbock
Bardwell, Mary Lee, 4Ed	Lubbock	Beran, Lumir E., 3S	Lubbock
Barham, Vida Ruth, 1H	Lubbock	Berrier, Christine, 4H	Maypearl
Barker, Lillian, 1B	Morton	Bickerstaff, Troy Henson, 1E	
Barkham, John Edward, 1E			Slaton
	Lubbock	Bickley, Marie, 1H	Rankin
Barkham, Jorga, 3G	Lubbock	Biehler, June, 2G	Farwell
Barks, Frances, 4Ed	Tulia	Biffle, Fred, 3G	Silverton
Barlow, Joe, 2B	Miami, Okla.	Bigham, Croft, 2E	Lubbock
Barnard, Wanda, 3B	Lubbock	Bihl, Julia May, 2S	Ft. Stockton
Barnes, Lynder, 1B	Quanah	Bird, Gene, 1A	Mineral Wells
Barnett, Mary, 4H	El Paso	Birdsong, Margarette, 3Ed	
Barnett, Verl George, 1S	Abernathy		Greenville
Barnhill, Frank, 2B	Turkey	Bishop, Harold, 1G	Floydada
Barr, Kathryn Reed, 2G	Lubbock	Bishop, Jewell, 1G	Wingate
Barrett, Florence Eunice, 4H		Bissett, Helene Evelyn, 1G	Brady
	Lubbock	Black, Harlan, 2A	Seagraves
Barrier, Raymond, 1B	Lubbock	Black, Ruth, 1G	Lubbock
Barrington, Dorothy Ellon, 1G		Black, Samuel Marvin, 3B	Paris
	Hale Center	Blackshear, Glenn W., 2G	
Barron, Fred C., 3B	Wichita Falls		Gatesville
Barry, James C., 2E	Slaton	Blackstock, Lyman L., 3G	Lubbock
Barstow, Helen, 2G	Lubbock	Blackwell, Lola Beth, 2Ed	Vernon
Barton, Ernest Frederick, 4A		Blackwell, Royce, 2G	Spur
	Lubbock	Blagg, William Dalton, 1G	Lubbock
Barton, Lura, 1H	Lubbock	Blain, Julia Elizabeth, 1G	Lubbock
Barton, Marie Winnie, 1Ed	Post	Blair, Hortense, 2G	Sudan
Barton, Raymond, 3G	Lubbock	Blake, Rob, 2A	Lubbock
Baskin, K., 2B	Lubbock	Blassingame, Vela R., 2H	Floydada
Bass, Felix, 2E	Lubbock	Blassingame, Verla, 2G	Floydada
Bass, Laura Sue, 3Ed	Lubbock	Bledsoe, Belva Augusta, 3G	
Bates, William Frank, 2E			Lubbock
	Pasadena, Calif.	Blocker, Harry, 1E	Lubbock
Battin, Buford Wilton, 3G	Lubbock	Bloom, Billie Beatrice, 1H	Lubbock
Baucom, Anna Mary, 2G	Lubbock	Blue, Don, 2E	Amarillo
Baugh, W. Foston, 4E	Lubbock	Blue, Eugene A., 1E	Lubbock
Baughman, Walter, 1E	Lubbock	Blumentritt, George, 1G	Iraan
Baze, Winford, 1B	Robert Lee	Bobo, Wesley Thomas, 2G	Canton
Bazzoon, Berta Mae, 1H	Vernon	Boggs, Edwin, 1B	Baileyboro
Bean, Mary Etta, 1E	Lubbock	Bogan, Bernard, 2E	Lubbock
Beane, Vivian, 3G	Hermleigh	Boland, George Lewis, 2B	Girard
Beans, Frank, 2E	Cleburne	Bolton, Jewel Alice, 3S	Crosbyton
Beard, Evelyn, 3G	Lubbock	Bond, Frank Harvey, 3G	Plainview
Bearden, Wendell, 4S	Lubbock	Booker, Eileen Geneva, 2H	Lubbock
Beasley, Juanita Jo, 1G	Shallowater	Boone, Mildred L., 2Ed	Lubbock
Beasley, Lorene, 2Ed	Iowa Park	Boren, Lemuel Maxey, 2E	Lubbock
Beauchamp, James Vance, 2B		Born, Virginia Alice, 1B	Lubbock
	Greenville	Bostick, Arvella, 1H	Lubbock
Beaver, Matty Lynn, 3H	Fluvanna	Bostick, Jack Patrick, 1B	Ft. Worth
Beebe, Graham, 1E	Portales, N. M.	Boswell, Henry Kimes, 1E	Barry
Beene, Iva Richey, 4Ed	Panhandle	Boucher, Frank, 2A	Cumby
Belcher, Wrena Belle, 1G	Waco	Boverie, Floyd, 3S	Wellington
Bell, James Arthur, 2B	Crowell	Bowers, Allene, 1H	Lorenzo
Bell, John Allen, 2E	Lubbock	Bowers, Marcillee, 2H	Bledsoe
Bell, Uel, 4A	Lubbock	Bowers, Max, 2E	Lorenzo
Bell, Vernon, 2A	Brownfield	Bowers, Paul Richard, 1E	Miami
Benham, Ford Clark, Jr., 4E		Bowlin, Alice Joy, 2G	O'Donnell
	Lubbock	Bowlin, Lucille, 3H	Lubbock
Benham, Alice Gene, 1G	Lubbock	Bowser, Perry Hamer, 1A	Lubbock
Benn, Clyde, 1E	Abernathy	Box, Grady, 3Ed	Shamrock

Box, Mrs. Sylva Bird, 2G	Brownd, Mattie, 1G	Lubbock
Boyd, Billie Frances, 1B	Brownfield, Lee Elmer, 1G	Brownfield
Boyd, Charles Rex, 1E		Lubbock
Boyd, John Anna, 2G	Browning, Elizabeth, 2S	Lubbock
Boyd, Hubert Darr, 1G	Browning, Jesse, 1A	Fluvanna
Boyd, Virginia, 1G	Browning, Leslie, 1A	Fluvanna
Bozeman, Bruce, 2E	Browning, Richard C., 2E	Lubbock
Bozeman, H. A. Jr., 1E	Brumley, Homer Lee, 3A	Hereford
Bradford, Cecil, 1G	Brummett, R. C., 4E	Ft. Worth
Bradford, Marshall D., 2S	Bryan, Bruce, 3E	Lubbock
Bradley, Jack, 1G	Bryant, Edith, 1H	Gordon
Bradley, Ned J., 2G	Bryant, Martel Prideaux, 4E	Stephenville
Bragg, Genevieve, 2G		Stephenville
Brandon, Frances, 2Ed	Bryant, Marvin Terrell, 2G	Midland
Brannen, Sue, 1G	Bryant, Noel, 1B	Wheeler
Brannin, R. S. Jr., 2E	Bryant, Ulmer, 1G	Lorenzo
Brant, Jo, 1H	Buchanan, Claude L., 1G	Tokio
Brashear, Cecil, 2A	Buckingham, Everett M., 1G	Amarillo
Brashear, Jhonnie R., 2G	Buckley, Harry William, 2E	Ft. Worth
Brasher, Herbert, 2E		Ft. Worth
	Buckner, Mrs. Mary Dale, 5G	Lubbock
Brasher, Nugent Trueman, 1S		Lubbock
	Buckner, Oran, 3S	Brownfield
Bratcher, Fannie Beatrice, 1G	Bucy, Thomas, 1E	Rising Star
	Buie, Clarice, 3G	Stamford
Bratcher, Guy, 4A	Buie, James Morgan, 4E	Ft. Worth
Brewer, Fred Albert, 2G	Buie, Pauline, 2B	Stamford
Brewer, Mary, 1Ed	Bumpass, Ralph, 1G	Lubbock
Brewster, Frances Margaret, 1G	Bundy, Christine, 3Ed	Silverton
	Bundy, Frank S., 1E	Lubbock
	Bundy, Joni Catherine, 1E	Silverton
Bridgeman, Dawson, 1G	Bunnell, Sol, 2S	Taylor
Bridgeman, Dinaween, 1B	Bunyard, Halon Aubrey, 3A	Crawford
Briscoe, Valree, 1Ed		Crawford
Bristow, Jesse, 3S	Burdine, Lois Eloise, 2H	Lubbock
Britain, O. H. Jr., 2B	Burford, Parker, 1A	Lubbock
Britain, Wendell Hunter, 1B	Burke, Mary Juanita, 1H	Mertzon
	Burkhalter, Henry, 5S	Lubbock
Brock, Lettye, 2Ed	Burkhalter, Louise, 1H	Lubbock
Brock, Ralph, 1G	Burks, W. A., 2E	Ft. Worth
Brock, Stephen L., 1A	Burleson, Adele, 2G	Matador
Brooks, Horace, 3G	Burnett, Vane Columbus, 3B	Dublin
Browder, Ruth, 1G	Burnett, Wesley, 2S	Graham
Brown, Audrey B., 4G	Burns, Frances Syper, 1G	Lubbock
Brown, Alma, 2G	Burroughs, Zan, 1S	Lubbock
Brown, Brady B., 1G	Burrow, Amy Belle, 1S	Tulsa
Brown, Byron, 1E	Burrows, Maxine, 1H	Lubbock
Brown, Charles Nolan, 3E	Burton, James Gordon, 3S	Cleburne
Brown, Claude H., 3A		Cleburne
Brown, Cyrus Hulin, 1G	Bussey, Novelle, 2G	Lubbock
	Bussey, Zephra, 1Ed	Sudan
	Butcher, Robert, 3E	Carlsbad, N.M.
Brown, Dolphys, 1B	Butler, Annie Lorea, 2H	Lubbock
Brown, Donald, 2B	Butler, Harry Conway, 1B	Turkey
Brown, Fay, 4G	Butler, Felix Edwin, 1G	Lubbock
Brown, Frances, 1S	Butler, Lonnie Warren, 1B	Elida, N. M.
Brown, Hillman Ditmore, 1B		Elida, N. M.
	Butler, Middie Beth, 3G	Lubbock
Brown, Jean, 2H	Butler, Wanda, 3G	Lubbock
Brown, LaVerne, 2G	Butts, Aubrey Otis, 2B	Hammon, Okla.
Brown, Lena Belle, 1S		Hammon, Okla.
Brown, Lud Julian, 2A	Butts, Bartie Lee, 2G	Quanah
Brown, Lud Julian, 2A		Quanah
Brown, Othniel, 2E	Cage, Billy, 1E	Sweetwater
Brown, Paul James, 1E	Caldwell, Ann, 3G	Lubbock
Brown, P. O., 1A	Caldwell, Bedford Edmond, 1B	Farwell
Brown, P. O., 1A		Farwell
Brown, Velma Iris, 4H		Farwell
Brown, Rankin Virgel, 1B		Farwell
Brown, Sue, 4G		Farwell
Brown, Virginia, 2Ed		Farwell
Brown, Walterine, 1H		Farwell

Caldwell, Joe, 1E	Abilene	Christensen, Edgar Allen, 1E	
Caldwell, J. W., 2E	Athens		Denver, Colo.
Caldwell, Linda, 2G	Lubbock	Christianson, Lloyd C., 4E	Lubbock
Caldwell, Loraine, 2G	Lubbock	Christopher, Nathan H., 4E	
Caldwell, William, 1B	Athens		Lubbock
Calhoun, Jewel, 1H	Lubbock	Clack, Evaughn, 4H	Durant, Okla.
Cammack, Lora Beth, 2G	Matador	Claiborne, Glenn, 1S	Quanah
Cammack, Mary, 1G	Lubbock	Clapp, Betty, 2H	Childers
Cammack, Pearl, 1G	Matador	Clapp, Roger, 5S	Childress
Campbell, Edwin, 3E	Pittsburg	Clark, Adrian, 2G	Denison
Campbell, Forrest, 2E	Matador	Clark, Doyce, 3S	Lubbock
Campbell, Frances Eliz., 1E		Clark, James, 1S	Lubbock
	Lubbock	Clark, Maxine, 4Ed	Lubbock
Campbell, Jack, 1B	Lubbock	Clay, Sallie Jane, 2H	Dunn
Campbell, James S., 2S	Caddo	Clayton, Joe 3A	Gail
Campbell, Julia Dahl, 1G	Pampa	Clayton, Mardes, 4A	Gail
Campbell, Louise, 3G	Lubbock	Clements, Dollie, 3Ed	Lubbock
Campbell, Spencer, 2B	Spur	Clements, Dorothy Frank, 3G	
Canning, Raleigh, 1E	Lockney		El Paso
Cannon, Carroll, 1B	Levelland	Clements, Lucille, 2B	Cisco
Cantrell, Ralph B., 4E	Mexia	Clements, Robert Jerry, 1B	
Caraway, William Ray, 1A	Tulia		Lubbock
Carey, Allene, 1G	Kidgore	Cleveland, Neweta, 3H	Lubbock
Carmack, Lucille, 2G	Briscoe	Clutter, Blevie Clem, Jr. 1A	Lubbock
Carnes, J. C., 2B	Covington	Coates, Maude, 2Ed	Gail
Carpenter, Deboe, 2S	Olney	Cobb, Helen, 1H	Lubbock
Carr, Jack, 1G	Portales, N. M.	Cobb, Arthur Paul, 2E	Tokio
Carrigan, Tom A., 3G	Cleburne	Cobb, Woodrow, 2B	Dickens
Carroll, Benj. Hollis, 2S	Ft. Worth	Coffman, George Raymond, 2E	
Carson, John Pearl, 1B	Spur		Cleburne
Carson, Verna Lee, 1G	Ft. Worth	Cogdell, Ralph, 4A	Crowell
Carter, Anabel G., 3G	Lubbock	Coker, LaVerne, 2H	Athens
Carter, Bessie, 2H	Darrouzett	Cole, Aston Winburne, 1A	Osceola
Carter, George Lynn, 2B	Lubbock	Cole, William Frank, 4S	Ropesville
Carter, K., 2S	Lubbock	Cole, Hugh Albert, 1G	Richmond
Carter, Lorena, 3G	Mertzon	Cole, Oleta, 1H	Post
Carter, Mary Ruth, 2G	Lubbock	Coleman, Irma Lynn, 1G	Lamesa
Caruthers, Pat C., 4S	Kopperl	Coleman, Ruth, 1G	Lubbock
Case, John F., 1E	Petersburg	Coleman, Winnie Lee, 1G	Childress
Case, Robert, 1G	Petersburg	Coles, Era, 2Ed	Colorado
Casey, Morris, 1B	Snyder	Collie, Jamie Brown, 1S	Lubbock
Cash, Allison, 1S	McLean	Collier, Jim, 4B	Lubbock
Cason, Noel Dickson, 4G	Cleburne	Collins, Glenn David, 1G	Quanah
Cass, Ches, 2B	Haskell	Collins, John Quitman, 1B	Lubbock
Casteel, J. Walter, 3S	Lubbock	Collum, LaStell, 1S	Lubbock
Casterlin, Donald E. G., 2S		Colvin, Dorothy Anna, 1H	Lubbock
	Pecos	Compton, Lewis Griffin, Jr., 3B	
Caudill, Katherine, 2G	Abilene		Corsicana
Caudle, Morris S., 2G	Ballinger	Conatser, Lacy, 1S	Levelland
Causeaux, Beatrice, 1G	Meadow	Conaway, Albert Earl, 1G	Friena
Cavanaugh, Carroll, 1G	Granger	Conaway, Raymond Paul, 1E	
Caveness, Bob, 1S	Tahoka		Hereford
Cawthon, Carl, 1E	Lubbock	Conley, Mrs. Irene Holt, 2H	Idalou
Chamberlin, John M. Jr., 2G		Conerly, Thomas Preston, III, 2B	
	Mineral Wells		Clarksville
Chance, Juanita, 2H	Ralls	Conner, Elizabeth, 3G	Lubbock
Chandler, Julius, 1G	Lubbock	Conner, J. Preston, 5S	Lubbock
Chatham, Thomas, 1B	Floydada	Conner, Louise, 2G	Floydada
Cheaney, Theo, 3B	Electra	Cook, Adrian Oren, 1A	Post
Chesser, Bristol, 5A	Southland	Cook, Christeen, 1H	Hale Cenuter
Chesser, Thomas Melvin, 3E		Cook, E. D., 2A	Lubbock
	Lockhart	Cook, Elouise, 4G	Lometa
Cheyne, Edith Richey, 3H	Spur	Cook, Frankie Marie, 2G	
Childers, Fred Andrew, 1S	Seminole		Big Spring
Childers, Jack, 2B	Lubbock	Cook, Kate Dean, 3Ed	Strawn
Childers, Lorene, 4G	Lubbock	Cook, James Marshall, 2B	
Chiple, Jack, 3S	Lubbock		Garden City
Chisum, Leopold, 3G	Levelland	Cook, Sarah Louise, 2H	Strawn
Christian, Joe Muller, 2E	Eldorado		

Cook, Verne L., 1E	Amarillo	Dahnke, Winslow, 4B	Boyce
Cooksey, Buford Fields, 1B	Seagraves	Dalton, Jim, 2B	Weatherford
Cooper, Al Ray, 2E	Ralls	Dalton, Lowell A., 3E	Waco
Cooper, Georgiana, 2G	Lubbock	Daniel, Jimmie C., 1E	Wichita Falls
Cooper, Mary Amanda, 1B	Lamesa	Darby, Lillie Zora, 3Ed	Estelline
Cooper, M. W., 2S	Turkey	Darwin, Rachel, 2B	Lubbock
Cope, Sybil, 2G	Lubbock	Daugherty, Francis Lee, 1S	Plainview
Copeland, Gladys, 2G	Sterling City	Davenport, Ellen Pearl, 1H	Lakeview
Copeland, Hazel, 2G	Ropesville	Davenport, Guinn, 1E	Vernon
Corley, Howard, 3B	Corpus Christi	Davenport, Johnnie Bob, 1H	Kress
Cornett, Florence, 1G	Knox City	Davidson, Narl, 4E	Portales, N. M.
Corse, William Bryan, 2G	Graham	Davidson, Wilburn Bill, 1G	Lubbock
Cosgrove, Charles Patrick, 1B	Cleburne	Davidson, W. D. Jr., 1A	Lubbock
Cosson, Eugenia, 1H	Teague	Davidson, Woodrow W., 1E	Portales, N. M.
Cotton, Image, 1G	Abernathy	Davies, Anna Kathryne, 1H	Lubbock
Couch, Mary C., 2H	Pecos	Davis, Austin, 3E	Lubbock
Covey, Truman, 1B	Wilson	Davis, Chapman, 3E	Sulphur Spring
Cowan, Coleman, 3A	Lubbock	Davis, Dan, 3E	Childress
Cowan, Dorothy Dix, 1G	Lubbock	Davis, Emily, 3H	Lubbock
Cowan, Maurice Floyd, 1A	Lubbock	Davis, Gaines, 2B	Abilene
Coward, Lester Arlois, 2S	Crosbyton	Davis, Robert Herbert, 3A	Lubbock
Cox, Catherine Clay, 4S	Vealmoor	Davis, James Parker, 1S	Lubbock
Cox, Charles, 3G	Lubbock	Davis, Joyce, 3S	Ralls
Cox, Joan, 2H	Anton	Davis, Kenneth, 1B	Lubbock
Cox, Martha Enna, 2S	Vealmoor	Davis, Kermit B., 2S	Ralls
Cox, Vincent, 3S	Portales, N. M.	Davis, Mary Ann, 1H	Lubbock
Cox, Woodrow Bryan, 1B	Oakwood	Davis, Mildred, 1H	Lubbock
Cozby, Mildred, 2B	Lubbock	Davis, Milton, 2A	Lubbock
Crane, Mrs. R. C., 3Ed	Lubbock	Davis, Roy Clifford, 5S	Itasca
Crausbay, Elsie Pearl, 2B	Lubbock	Davis, R. V., 4E	El Paso
Crawford, A. W., 4E	Childress	Davis, Trenton T., 2S	Saint Jo
Crawford, Bob, 2B	Lubbock	Davis, Walter B., 1A	Farmersville
Crawford, Dora Belle, 2H	Big Spring	Davis, William James, 1E	Ft. Worth
Crawford, Howard Clifton, 3E	Haskell	Day, Edward, 1E	Wilson
Crawford, Herschel, 2E	Slaton	Dean, Jerry Lee, 2A	Waco
Crawford, John A., 2E	Slaton	Dean, Lida Mae, 1B	Waco
Crawford, J. Frank, 2B	Childress	Dean, Odell, 1A	Dawson
Crawford, Naomi Geneva, 4Ed	Dimmitt	Deaton, Mildred, 1G	Dumont
Crawford, Wilma, 1H	Slaton	DeBusk, Manuel, 5G	Idalou
Crawford, W. T. Jr., 2G	Big Spring	Dedmon, Pearl, 2G	Sagerton
Crenshaw, Billy, 2G	Lubbock	Deering, Gordon M., 4Ed	Mason
Crenshaw, Charles, 2G	Lubbock	Defee, Roland, 2B	Ralls
Crenshaw, Elinor, 1G	Lubbock	DeFee, T. J. Jr., 3G	Dalls
Crews, Alvin, 3G	Wilson	DeLashaw, Fred, 5A	Ivanhoe
Crews, Leroy, 2B	Wilson	DeLoach, Jimmie Lee, 2G	Sudan
Crews, Olen, 1B	Wilson	Dempsey, Dennis, 1E	Santa Anna
Crews, Rush, 3S	Seminole	Denning, Joel N., 2A	Lubbock
Crider, Lewis, 1S	Post	DePriest, Lou Verne, 1G	Tahoka
Crockett, D. B., 1S	Morton	Derrick, Adelia, 2G	Idalou
Crockett, Walter E., 1B	Rowena	Dickson, Drew, 2B	Ballinger
Cross, Harvey Earl, 1E	Dereno, N. M.	Dickson, Travis, 2Ed	Roby
Crow, Catherine E., 1B	Lamesa	Diersing, Frances Marie, 2S	Munday
Crow, Samuel Wortham, 1S	Hamlin	Dillard, Edna Mae, 3G	Crosbyton
Crowell, J. M., 2S	Crowell	Dismukes, Jimmy Barton, 1B	Rocksprings
Cruce, John Luther, 1B	Brownfield	Dobbins, Dorothy, 4Ed	Waco
Crutcher, Roy Leon, 1G	Loraine	Dobkins, Joyce, 3B	Lubbock
Cudd, Helen, 1G	Spur	Dobbs, Mary Inez, 1H	Teague
Cunningham, Bedford, 2B	Iowa Park	Dockray, V. R. Jr., 1B	Lubbock
Curfman, Leonard, 2E	Electra	Dodd, Earl, 2S	Briscoe
Curry, Melva, 3S	McGregor	Donaldson, Anna Belle, 4Ed	Lubbock
Curtis, Royal, 2G	Abilene		

Donaldson, Willis Lyle, 1E	Lubbock	Eby, Duane C., 2G	Olton
Donnell, Alvin A., 2A	Eliasville	Echols, Tommy, 3G	Throckmorton
Donnell, Ruth, 4G	Lubbock	Eddins, Francis, 1E	Marlin
Donnell, Sidney, 3A	Lubbock	Edgett, Helen Margaret, 1Ed	Lubbock
Dooley, Walter Edward, 3S	Floydada	Edwards, David Aubrey, 3G	Lubbock
Dopson, Zera Helen, 1H	Lubbock	Edwards, Freddie, 1B	Tahoka
Doran, Winston Wiley, 1B	Lovington, N. M.	Edwards, Geraldine, 2B	Lubbock
Dorrell, Layton Harold, 1A	Floydada	Edwards, Luther Hastey, 2G	Lubbock
Dorsett, Lucile, 3Ed	Plainview	Eggleston, Mila, 3G	Vernon
Doucette, Berton, 3E	Pampa	Eiland, Helen Francis, 3H	Munday
Douglas, Mary Louise, 2B	Lubbock	Elder, Bryan, 2S	Clovis, N. M.
Douglas, Ralph Waldo, 4E	Lubbock	Elder, Henry, 4A	Cuero
Douglas, R. C. Jr., 3S	Lubbock	Elder, Joe, 2E	Cuero
Douglas, Ruth, 3B	Lubbock	Elkins, C. H., 5S	Lubbock
Douglass, Emmajean, 2G	Lubbock	Elliott, Arvie, 1A	Lubbock
Douglas, Frances, 2S	Big Spring	Elliott, Walter Alvin, 2Ed	Levelland
Douthit, William Corbin, 1B	Tahoka	Elliott, Edward Eldridge, 3B	Temple
Dow, Harold, 2S	Lubbock	Elliott, Fred, 2A,	Lubbock
Dowell, Gideon S., 4A	Lorenzo	Elliott, Harold, 2B	Dumas
Dowell, Gwynn Clark, 2B	Royse City	Ellis, Cecil, 3G	Rule
Dowell, Horace Frederick, 5A	Lorenzo	Ellis, Cleo, 3Ed	Plainview
Downing, James Layton, 2E	Wichita Falls	Ellsworth, Heber Michael, 5B	Lubbock
Downs, Jack, 4A	Lubbock	Ely, R. D., 1G	Merkel
Doyle, John, 4E	Wishek, N. Dak.	Emfinger, Norman William, 1E	Littlefield
Drake, Phyllis, 3H	Kress	Emmett, John Churchill, 1E	Roswell, N. M.
Drewry, Lea Beth, 1B	Slaton	English, Judith, 3S	Plainview
Drinkard, Cloyce, 2A	Snyder	English, Nelson, Jr. 2E	Premont
Dryden, Mary Elizabeth, 4G	Best	English, Robert Franklin, 1A	Blackwell
D'Spain, Charles, 1S	McLean	Epperson, Dwight L., 1E	Cleburne
Dubberly, Gene, 2G	Big Spring	Epperson, James Troy, 2B	Cleburne
Duff, Berry, 2A	Lubbock	Etheridge, James, 2G	Grandview
Duff, Margaret Helen, 2G	Byers	Eubank, Paul, 2G	Lubbock
Dulin, Tommye Ruth, 2G	Wilson	Evans, Arthur Q., 2B	Elida, N. M.
Duncan, Allene, 2H	Lubbock	Evans, Bernard, 2B	Ropesville
Duncan, Gaye, 2H	Shallowater	Evans, Mrs. Grace L., 4G	Elida, N. M.
Duncan, Mary Margaret, 2G	Littlefield	Evans, Guy B., 3E	Lindale
Duncan, Raymond, 1B	Lubbock	Evans, Inez, 1G	Runningwater
Dunlap, E. Ray, 2A	Spur	Ewing, Willie Martha, 1G	Estelline
Dunlap, Mildred, 1H	Lubbock	Ezell, Mrs. Atha, 1H	Lubbock
Dunlop, Malcom Wales, 2A	Lubbock	Fairly, Roland Fred, 4E	Lubbock
Dunn, Arthur David, 1G	Roswell, N. M.	Fann, Maxlee, 1G	Lubbock
Dunn, Arthur Lee, 1S	Spur	Farmer, Panny, 1B	Knox City
Dunn, Genia, 2Ed	Crosbyton	Farr, Robert Alton, 2G	Bellevue
Dunn, Hazel Dell, 2G	Crosbyton	Farr, Francis, 1B	Bellevue
Durham, Evlene, 1H	Snyder	Farrar, Maurine, 1H	Lubbock
Durham, G. W., 3G	Lubbock	Faver, Nancy Elizabeth, 3G	Sweetwater
Duval, Charles, 1B	Sherman	Fellows, Frank K., 2E	Plainview
Earl, Inez, 3G	Gustine	Ferebee, D. M., 1E	Vernon
Earnest, Edith, 3Ed	Lubbock	Ferguson, Jewel Lee, 2B	Chillicothe
Earnest, J. R., 1E	Lamesa	Fields, Lee, 1G	Lubbock
Eason, Allie, 2G	Rotan	Fields, Mrs. Lee, 1G	Lubbock
Easter, John, 1E	Lubbock	Fike, Charles Edward, 3G	Levelland
Easterling, Thomas R., 2E	Memphis	Fincher, Gladys, 4H,	Chillicothe
Eaton, Fannie Brown, 2H	Albany	Fincher, Otis, 2G	Lubbock
Eaton, Frank, 2S	Albany	Fine, Earl, 1B	Slaton
Eaton, Jean Ory, 1H	Albany		
Eaton, Wilmot, 2G	Rule		
Eaves, Mrs. C. D., 4B	Lubbock		

Fine, Neil Casey, 3A	Slaton	Garret, Gaynes Aldon, 1E	Muleshoe
Finley, G. P. Jr., 1B	Aspermont	Garrett, Judge, 1B	Bellview, N. M.
Finley, Leta Faye, 1H	Meadow	Garrett, Mason McAlister, 1B	Oakwood
Fish, John Henry, 1S	Paducah	Garrigues, Pauline, 4H	Slaton
Fisher, Mrs. Elizabeth, 2Ed	Lubbock	Garrison, Ward, 4B	Lubbock
Fisher, Frieda Mae, 2H	Shallowater	Gatlin, Mildred, 3H	Lubbock
Fisher, George Herman, 1S	McCamey	Gause, Roma, 3G	Lubbock
Fisher, Leon, 4B	Memphis	Gay, Frank, 1E	Lubbock
Fleming, Marjorie, 1H	Lubbock	Gaylor, Lee, 4G	Wagoner, Okla.
Fletcher, Irene, 2G	Lubbock	Gee, J. T., 5A	Carbon
Flores, Vetal, 2G	Lorenzo	Gelin, Leona Marguerite, 5G	Lubbock
Florida, Kaufman Thomas, 2G	Rotan	Gholson, Martha, 2B	Lubbock
Floyd, Audine, 1G	Brownfield	Gibbs, Chester A., 1S	Sweetwater
Foot, Corinne, 2G	Slaton	Gibbs, Clifford L., 3G	Ropesville
Forbis, Stafford, 2B	Spur	Gibson, Roberta, 2G	Cone
Ford, Claribel, 2G	Lubbock	Giddens, T. W., 5A	Snyder
Ford, Gertrude, 2Ed	Sudan	Gilbert, Adeline Cecelia, 1E	Hinsdale, Ill.
Ford, Joe Marvin, 2E	Lubbock	Gilbreath, Wynona Ford, 4G	Lubbock
Ford, Olga Fay, 3G	Cisco	Gill, Thomas Cicero, 1B	Megargel
Ford, Seth Maurice, 1A	Santa Anna	Gill, Lela, 4E d	Silverton
Ford, Thomas Alvin, 4E	Lubbock	Gill, Marydell, 1G	Levelland
Foreman, Pauline, 1G	Spur	Gilley, Frances, 2G	Southland
Fort, Sam, 1E	Lubbock	Gilmore, Braxton, 3G	Olney
Fortner, Elmer, 2G	Sherman	Gilmore, Wilson, 2Ed	Olney
Foster, Altha, 2G	Lubbock	Glass, Bird L., 3Ed	Greenville
Foster, George W. Jr., 2B	Lubbock	Glasscock, Juno, 2Ed	Muleshoe
Foster, M. K., 2E	Lubbock	Glasgow, Mrs. Louise, 4G	Henrietta
Foster, Mrs. Sarah, 4Ed	Amarillo	Glazner, Charles, 1E	Carlisle
Fowler, Ira, 1E	San Angelo	Glazner, Elbert B., 1E	Lubbock
Fowler, Lambuth Graves, 1E	Sudan	Glazner, Margaret, 3G	Anson
Fox, Agnes, 1G	Lorenzo	Gildewell, Beatrice, 3G	Truscott
Fox, Mable, 1G	Lorenzo	Glover, Lloyd Howard, 3G	Raymondville
Francis, Mrs. Mary Hill, 2S	Lubbock	Gobbie, Earl Ross, 1S	Carta Valley
Francis, W. B., 1G	Spur	Godeke, Henry Lawrence, 4E	Lubbock
Frazier, Kenneth Durward, 1A	Farmersville	Godeke, Richard Harold, 1E	Lubbock
Freeland, G. Veo, 2G	Lubbock	Goldstein, Sid, 2E	Crane
Freeland, J. Huberne, 3Ed	Lubbock	Golightly, W. E., 2S	Floydada
French, Jack, 1E	Tuxedo	Goodenough, Walter, 1G	Childress
Frost, Mary Ellen, 2G	Lubbock	Goodloe, Charles, 1S	Amarillo
Fry, Clyde, 1G	Lubbock	Goodloe, Miriam, 1G	Lubbock
Fry, Klipstein, 2G	Lubbock	Goodloe, Mary Rebecca, 2G	Lubbock
Fuchs, Lillie Marie, 1H	Abernathy	Goodman, Mrs. Lena, 1G	Lubbock
Fudge, James, Owen, 2E	Dallas	Goodwin, Elaine, 2B	Lubbock
Fuller, Clayson, 3A	Floydada	Gordon, Frances Ellen, 1G	Itasca
Fuller, Jack Bartlett, 1G	Lubbock	Gordon, Jay, 4G	Lubbock
Fulton, Mary Edwina, 2G	Lubbock	Gordon, Henry Lee, 1S	Mobeetie
Fulton, Sarah Elizabeth, 2G	Lubbock	Gordon, Marshall Wilson, 1G	Lubbock
Fuqua, Duane, 1S	Amarillo	Gordon, Sam, 2A	Itasca
Furr, S. J., 2S	Weatherford	Gracey, Dutch Marie, 1Ed	Brownfield
Fyffe, Alice Mae, 1G	Floydada	Gragg, Cedric, 1E	Dallas
Gabrielle, Sanford, 4E	Lubbock	Graham, Robert Ethan, 2G	Denton
Gaines, Jimmie Wilson, 1E	Bronte	Graham, Sybil, 3G	McLean
Gaither, Don Nolan, 2B	Strawn	Granberry, Marjorie, 2H	Breckenridge
Gamble, Arthur Earl, 1B	Lubbock	Grau, Ruby, 1G	Grady, N. M.
Gamblin, Lowell Milton, 1B	Floydada	Graves, Buster, 1B	Plano
Gamel, John Worth, 4E	Lubbock	Gray, George Howell, 4E	Abilene
Gardner, Carl, 2S	Kopperl		
Garlington, John Evelynne, 4G	Littlefield		
Garlington, Jack, 1G	Littlefield		

Gray, John C., 2B	Lubbock	Hamilton, Annie Letha, 1G	Lubbock
Gray, Willard, 4E	Tyler	Hamilton, Christine, 2Ed	Electra
Greathouse, Walton Dee, 2E	Blackwell	Hamilton, Mary Dorcas, 2H	Quitauque
Green, Grover, 4E	Gainesville	Hammack, J. M., 1E	Lubbock
Green, G. W., 1A	Graford	Hammons, Abbie, 1Ed	Gordon
Green, Raymond Kendrick, 1A	Lubbock	Hams, Harold, 1B	Midland
Green, Mary, 1E	Lubbock	Hancock, Jack, 1S	Tahoka
Green, Merle, 1H	Levelland	Handley, Leora Mae, 1B	Lamesa
Green, Stella Mae, 2H	Levelland	Hankins, Alton, 1G	Lubbock
Green, Truman Joseph, 3E	Portales, N. M.	Hankins, Oleta, 1B	Lubbock
Greenfield, G. B., 1B	Shamrock	Harber, Morrison W., 1B	Munday
Greer, Albert G., 4A	Comanche	Hard, Graham, 2H	Shallowater
Greer, Carl S., 4E	Slaton	Hardberger, Mary Geneice, 2Ed	Lubbock
Greer, Lela Frank, 2G	Wilson	Hardgrave, Lyle, 3E	Lubbock
Greer, Wayne, 2B	Lockney	Hardgrave, Lynn, 2E	Lubbock
Gregory, Evelyn, 2G	Lubbock	Hardgrave, Sophie Alice, 1H	Lubbock
Gregory, Irene, 2S	Gorman	Harding, Robert, 2E	Dallas
Gregory, Wm. W., 4A	Lubbock	Hardwick, James Vincent, 1E	Wichita Falls
Gresham, C. E., 2E	Newlin	Hardy, Benetha Maxine, 2G	Lamesa
Griffin, Alvin Eugene, 1G	Electra	Hardy, Wayne, 2S	Lubbock
Griffin, Etchel Earl, 1E	Childress	Hargis, Amelia, 3G	Conway, Ark.
Griffin, Percy, 2G	Electra	Hargrave, Levi Marlin, 3A	Hale Center
Griffing, D. Hollis, 3E	Milford	Harkey, Jerome, 1E	Lone Oak
Griffis, Pauline, 1G	Valera	Harkins, Carl, 1B	Colorado
Griffith, Mary D. J., 3G	Maypearl	Harmel, Ora Mae, 1Ed	Plainview
Griffith, Horace Ernest, 3G	Loraine	Harp, R. M. Jr., 3B	Plainview
Griffith, William, 3E	Loraine	Harper, Bryan, 2B	Lubbock
Grigg, Melvin, 2B	Lubbock	Harper, Carl Henry, 5G	Lubbock
Grigsby, Olive Virginia, 2H	Lubbock	Harper, Fred, 1B	Anson
Grimes, E. B., 2G	White Deer	Harred, Hallie, 2G	Brownfield
Grimes, Fred, 1S	Hillsboro	Harred, Hazel, 2G	Brownfield
Grimes, Wilson A., 2E	Greenville	Harrell, James, 3E	San Saba
Grimsley, Betty, 2H	Lubbock	Harrell, Mattie Vina, 1H	Snyder
Grisson, John Edward, 2B	Lubbock	Harrell, Opal, 1H	Lubbock
Grist, Walter J., 2A	Tulia	Harrington, Horace E., 2S	Portales, N. M.
Grundy, Lola Mae, 1G	Floydada	Harris, Arline Lucile, 1S	Lubbock
Gulledge, Velda Beth, 3H	Lubbock	Harris, Carl, 2A	Mart
Gulledge, Eelda Beth, 3H	Lubbock	Harris, Doyle, 1B	McKinney
Guthrie, Essie Lee, 1H	Sweetwater	Harris, Ealey, 3S	Lorenzo
Guthrie, Harry L., 4S	Mesa, Ariz.	Harris, Fern Raymond, 3A	Southland
Guthrie, Jewell F., 1A	Sweetwater	Harris, F. Marion, 3S	Sallisaw, Okla.
Guthrie, John J., 3E	Seymour	Harris, LeRoy, 1E	Levelland
Haag, Oliver Englebert, 1E	Midland	Hart, Jim Allee, 4G	Rockwood
Hackney, Burton G., 1G	Pickton	Hart, Mary Frances, 3H	Aquilla
Hackney, Ray, 1G	Pickton	Harter, Astena, 2H	Tahoka
Hair, Bailey, 2S	Olton	Harter, Joseph Walter, 4A	Marlin
Hair, Louis, 1G	Olton	Hartsell, Maxine, 2Ed	Teague
Halbert, Eleanor, 2G	Plainview	Harvey, Marvin J., 1G	Lubbock
Hale, Leon, 3S	Memphis	Hash, Jimmy Virginia, 4G	El Paso
Hale, Robert H., 1B	Lubbock	Hastings, Mrs. Emma May, 4H	Lubbock
Hale, Roy L., 1E	Floydada	Haswell, John Thomas, 1A	Dallas
Hale, Wm. Varnell, 3B	Lubbock	Haught, O. B., 2G	Shallowater
Hall, A. G. Jr., 2G	Slaton	Hauk, Juanita, 3H	Levelland
Hall, Joseph Leslie, 5S	Stanton	Havis, Maurine, 4H	Lubbock
Hall, Lucille, 1G	Littlefield	Havis, Regan Melvin, 2A	Lubbock
Hall, Maynard, 1B	Lubbock	Hawkins, Loma, 2G	Meadow
Hall, Paul, 3E	Ft. Worth	Hawthorne, Pauline, 1H	Lubbock
Hall, Pauline, 2G	Lubbock		
Hall, Wm. Mancil, 2S	Water Valley		
Hall, Wm. Wyatt, 2A	Hale Center		
Halsey, Marcus, 2G	Lubbock		
Hambright, Janet, 1B	Lubbock		

Howell, Hobson Riley, 4S. Paducah
Howell, James Powell, 2G. Lubbock
Howell, John Thomas, 2G. Meadow
Howell, Mary Loch, 1H. Lubbock
Howell, May Tom, 3H. Lehman
Howell, Woodrow G., 2E. Lubbock
Hubbard, Paul Weldon, 1Ed
Breckenridge
Hubbert, George, 3Ed. Lubbock
Hubbert, Jasper, 2S. Lubbock
Hudgins, Frank, 1B. Cleburne
Hudman, Evelyn, 3G. Lubbock
Hudman, Kathryn, 2S. Lubbock
Hudson, Anna Ferne, 1G. Dalhart
Hudson, Bonnie, 3B. Aquilla
Hudson, Elsie Marie, 2G. Novice
Hudson, Florence Louise, 1H. Shallowater
Hudson, Leldon, 1A. Wellington
Hudson, Wellborn R. Jr., 4G. Austin
Huebler, Claudia, 1B. Lubbock
Huff, Ollie, 1H. Merkel
Hughes, Howard, 1A. Channing
Hughes, Madeline, 3G. Lubbock
Hughes, Lilyan Nell, 1G. Merkel
Hughtett, Maurice Gaylor, 2E. Lubbock
Hull, Doris Lynn, 4B. Lubbock
Hulseay, Gaylon, 1Ed. Dickens
Humphreys, David, 2S. Clinton, Okla.
Humphries, Daisimay, 4G. Lubbock
Humphries, Harold, 1B. Lubbock
Hunt, James Ney, 1S. Lubbock
Hunt, Lucille, 4H. Claude
Hunt, Roberta, 1B. Claude
Hunter, Glenn, 4A. Gilmer
Hunter, Pauline, 2Ed. Brownfield
Hurmenge, Howard R., 4E. Lubbock
Hurmenge, Ruth Frances, 3G. Lubbock
Huston, Margaret Lucille, 1H. Lubbock
Hutchinson, Mrs. J. T., 4G. Lubbock
Hutchinson, Thomas, 2S. Lubbock
Hutchinson, Marvin, 1G. Wichita Falls
Hutto, Spurgeon, 1S. Ralls
Hyde, John Ed, 1A. Knox City
Immel, Kathryn Virginia, 2H. Borger
Ince, Alva, 2H. Lubbock
Ince, Leon, 3E. Cleburne
Ireland, Wright, 3S. Lubbock
Isaacs, Roy, 1B. McAdoo
Izard, Roleta, 1G. Lubbock
Jackson, Wm. Burrell, 2A. Pampa
Jackson, Harvey, 5Ed. Roaring Springs
Jackson, John Francis, 1G. Uvalde
Jackson, J. T., 1G. Lubbock
Jackson, Lee Monroe, 1E. Lubbock
Jackson, Mildred, 1G. Canadian
Jackson, Mineus Carroll, 3Ed. Wellington
Jacoby, Paul, 1G. Oklahoma City, Okla.
James, Kathleen, 1G. Lubbock
James, Clyde Noble, 4E. Lubbock
Jarrett, Mrs. D., 3Ed. Lubbock
Jeffreys, Estelyne, 3Ed. Hale Center
Jeffreys, Evelyn, 3Ed. Hale Center
Jeffreys, Lois, 4Ed. Hale Center
Jeffreys, Lloyd, 1B. Hale Center
Jeffus, Jean, 4E. Plainview
Jenkins, Harmon, 3B. Lubbock
Jenkins, Jack Simmons, 1E. Levelland
Jenkins, J. R., 1A. Lubbock
Jenkins, Opal Inez, 2G. Muleshoe
Jenkins, Orville Wesley, 3G. Lubbock
Jennings, Garland Earnest, 1E. Amherst
Jennings, Helen, 3S. Lubbock
Jennings, Kathleen, 4G. Plainview
Jeter, Mrs. Bryan, 2Ed. Lubbock
Johnson, Byron, 1B. Stoneburg
Johnson, Camille, 2Ed. Pride
Johnson, Doris Mae, 2Ed. Dunn
Johnson, Garvice, 3G. Jewett
Johnson, Frederick Marshall, 1E. Cleburne
Johnson, Ober Vaughn, 2E. Haskell
Johnson, Raymond E., 4E. Tyler
Johnson, Royce Theibert, 1Ed. Dunn
Johnston, Ardell, 1H. Lubbock
Johnston, Cecil Wharton, 1S. Slaton
Johnston, Dorothy, 3G. Crosbyton
Johnston, James A., 2E. Lubbock
Johnston, Joseph Rex, 2A. Floydada
Johnston, Katherine, 1B. Ralls
Johnston, Lennie D., 3B. Longview
Johnston, Mary Frances, 2H. Ralls
Johnston, Nell Ray, 1G. Lubbock
Joiner, Winifred, 1G. Hamlin
Jones, Billie Bob, 1G. Lubbock
Jones, Bill, 1S. Anson
Jones, B. L., 1S. Hamlin
Jones, Charlotte Temple, 4Ed. Paint Rock
Jones, Clemen Sam, 2G. Abilene
Jones, Clydene, 2B. Lubbock
Jones, Connie Elizabeth, 1G. Stanton
Jones, Delbert, 3E. Lubbock
Jones, Elizabeth, 1G. Paducah
Jones, Esther Lloyd, 1B. Lubbock
Jones, Evelyn O., 5Ed. Holland
Jones, Mrs. J. V., 3H. Lubbock
Jones, Lillie Mae, 1H. Center
Jones, Louise, 2H. Abernathy
Jones, Mart Woodson, 5G. Seagraves
Jones, Mary Watson, 3H. Silvertown
Jones, Maston Alexander, 1E. Lubbock
Jones, Merle, 3E. Lubbock
Jones, Nancy Lou, 1E. Lubbock
Jones, Roy Vane, 1B. Big Spring
Jones, Sam Hastings, 2E. San Angelo
Jones, Sara Tom, 3G. Coleman
Jones, William Andrew, 1G. Snyder
Jones, William Robert, 1E. Childress

- Jones, Wilmer, Jr., 2E Floydada
 Joplin, Juanita, 1B Levelland
 Joseph, Edgar Andrews, 2G Lubbock
 Jungman, Eleanor, 1G Munday
 Kaderli, Allene, 1H Stanton
 Kaderli, Maurice, 1S Stanton
 Karr, Ray, 3A Spur
 Kay, Hugh, 3E Lubbock
 Keeling, Bishop B., 1G Dallas
 Keeter, Mary, 1B Claude
 Keeton, Jean Juanette, 2G Bynum
 Keeton, Lenro, 2S Bonham
 Keever, George, 1S Lorenzo
 Kelley, Leona Mae, 2G Idalou
 Kelley, Mary Edna, 2Ed Tulia
 Kelley, Willie, 1B Roscoe
 Kelly, Joseph Dyche, 4E Lubbock
 Kelton, Norris, 4S Baird
 Kelton, Willard, 3E Baird
 Kempson, Leola, 2G Levelland
 Kennedy, Dell, 1G Lubbock
 Kennedy, Paul L., 3S Estelline
 Kennon, Nellie Mae, 3S Godley
 Kerr, Emmett B., 2E Lubbock
 Kerr, Fred, 3G Idalou
 Kerr, Lewis, 2B Lubbock
 Kersey, Cecil Glenn, 5B Amarillo
 Kessel, Julian, 1S Slaton
 Key, Cecil, 2E Lamesa
 Key, Mrs. Claude, 4G Lubbock
 Key, Jessie Claudene, 1H Kirkland
 Kight, Richard T., 1E Lubbock
 Killian, Lois Marie, 1G Idalou
 Killian, Violets Oretha, 1B Ft. Worth
 Kimmel, James H. Jr., 1G Lubbock
 King, Don, 3A Brownfield
 King, John L., 2E Lubbock
 King, Louise, 3G Lubbock
 King, Newell, 3S Vernon
 King, Owen Russell, 1E Cheyenne, Wyo.
 King, Patti Anne, 2G Spur
 King, Lorimore Raymond, 1A Floydada
 King, Wanda, 3G Silvertown
 Kinslow, Hary Helyn, 3G Memphis
 Kirby, Laverne, 2E Sherman
 Kirk, Buster, 3E Spearman
 Kirk, Kathryn Gray, 1G San Saba
 Kirkpatrick, Georgia, 1G Littlefield
 Kirkpatrick, Leola Geraldine, 4G Littlefield
 Kisinger, J. Y., 1E Olton
 Kitchens, Louie, 1E Silvertown
 Klein, Edward, 2G Waco
 Klepper, Sallie Belle, 1H Rotan
 Klett, Katherine, 1G Lubbock
 Knight, Mary, 2H Lubbock
 Knight, Maynard D., 1S Lubbock
 Knox, Elliot, 3E Roby
 Knudson, Elmo M., 1E Clifton
 Koon, Margaret Mae, 1H Spur
 Koonsman, Mrs. Sam, 3Ed Dickens
 Korn, Oscar Louis, 1S Dallas
 Kotrola, Alvin, Engelbert, 2S Taylor
 Kral, Anna Katherine, 4G Roby
 Kral, Thomas Tengler, Jr., 4E Roby
 Krueger, Mrs. J. T., 3G Lubbock
 Kuehler, Paul, 2E Groom
 Kuhn, Willet, 4E Weatherford
 Kunkel, Casey W., 2B Lubbock
 Kunkel, LaZette, 4H Lubbock
 Kunkel, Zona Margle, 1G Lubbock
 Kyle, Mary Elizabeth, 2Ed Lubbock
 Labay, Walter, 3A Granger
 Laine, Morris, 1G Spur
 LaMaster, Walter B., 2E Perryton
 LaMaster, Cy, 3B Perryton
 Lamb, Leslie Lee, 1S O'Donnell
 Lamb, Noel Raymond, 2E Bridgetown
 Lancaster, Eloise, 4H Teague
 Lancaster, George Marvin, 2S Clovis, N. M.
 Land, Elizabeth, 2G Lamesa
 Landrum, Cyrus A., 1G Fluvanna
 Lane, Leila, 1G Lubbock
 Laney, Arthur, 1S Munday
 Langdon, Rosamond Louise, 3G Glen Rose
 Langford, Billie, 1E Lubbock
 Langford, George, 5G Frankell
 Langford, Maxine, 1S Lubbock
 Langston, Joseph Wayne, 1S Anton
 Lanham, Elizabeth, 4B Lubbock
 Lankart, Edna Orlean, 2Ed Waco
 Lattimore, James P., 1A Lubbock
 Lauderdale, James, 4S Saint Jo
 Law, Lora, 1B Roaring Springs
 Lawless, Earline, 1Ed Kurten
 Lawrence, Geraldine, 2Ed Lubbock
 Lawson, Hazel, 2H Lubbock
 Lawson, Helen Louise, 4H Lubbock
 Leach, T. L., 4A Brownwood
 Leathers, Leroy B., 2G Lelia Lake
 Leatherwood, Carson, 2B Parnell
 Leaverton, Nancy Ruth, 2Ed Lubbock
 Leaverton, Rosemary, 1G Lubbock
 Ledbetter, Talbot, 2E Brady
 Lee, Anna Belle, 2G Childress
 Lee, Josephine Kay, 2G Lubbock
 Lee, Miller, 2S Knox City
 Lee, Rube, 1B Snyder
 Leggett, Phelan, 1H Robert Lee
 Lehmberg, Helen Grace, 1G Mason
 Lehr, John Dalton, 2E Lubbock
 Leidigh, Katherine, 2H Lubbock
 Leidigh, Mary Elizabeth, 4H Lubbock
 Lemond, Joe, 1G Durant, Okla.
 Lemons, Joe Fred, 1S Silvertown
 Leslie, Hillery Allen, 1E Lubbock
 Lewis, Ella, 2G Ropesville
 Lewis, Jennings, 3B Lubbock
 Lewis, Ruth Elaine, 1G Lubbock
 Lieske, Helen Augustine, 1Ed Crosbyton
 Light, Ruth, 2H Bula

Liles, Joe H., 2A	Dublin	McCarty, Chester C., 2B	Lubbock
Linck, Ralph Eugene, 1S	Big Spring	McCarty, James Weldon, 1E	Lubbock
Lindsey, Barbara Rachael, 1G	Abernathy	McCauley, John W., 1G	Lelia Lake
Lindsey, Herbert E., 2Ed	Wellington	McCauley, Mary Louise, 1G	Lubbock
Lindsey, James Luther, 2G	Lubbock	McCay, Bonnie, 2G	Idalou
Lindsey, John A., 4E	Lubbock	McCay, Robbie, 2E	Idalou
Lindsey, Margaret, 4G	Lubbock	McClain, Elmer Carl, 5S	Lubbock
Lindsey, Robert W., 1G	Fluvanna	McClain, Hope, 2H	Spur
Line, Wilbur, 1G	O'Donnell	McClinton, Bedford, 1G	Snyder
Liner, T. Eucl, 5A	Lubbock	McClure, Edwin, 3S	Jacksboro
Link, Beatrice, 1Ed	Tuxedo	McCollum, Curtis, 2E	Lubbock
Linn, Dollie Mae, 4H	Lubbock	McCormick, Myron Bruce, 1E	Amarillo
Lisenby, Dot, 2H	Spur	McCrummen, Alene, 1G	Lubbock
List, James J., 2B	Lubbock	McCrummen, Luther Hall, 1E	Lubbock
Liston, Morrison, 4E	Wills Point	McCrummen, Lucille, 4G	Lubbock
Little, Woodrow J., 3G	Harlingen	McCuiston, Truett A., 1A	Stamford
Littlepage, Cleveland L., 2A	Tahoka	McCullough, Coy, 1A	Lubbock
Litton, Fred, 2E	Lubbock	McDaniel, Celestine, 1G	Kress
Lock, John Henry, 4S	Jackson	McDaniel, Nell, 1H	Crosbyton
Lockard, Vinita, 1B	Chillicothe	McDonald, Veta Rae, 2H	Killeen
Lockwood, W. O., 1B	Lubbock	McDuff, James R., 1G	Crosbyton
Lofland, Mary Earle, 2G	Vernon	McEachern, Wm. Truitt, 1B	Crosbyton
Loftin, Ashley Dees, 1E	Tulia	McElroy, D. M., 2B	Dallas
Lofton, K. T., 3A	Post	McElroy, George Ellen, 1G	Ralls
Lokey, Theresa, 2B	Lubbock	McElya, Oliver R., 4E	Lubbock
Long, Geo. B., 2G	Taft	McFarland, Martha, 1Ed	Friona
Long, Lewis, B., 2G	Albany	McFarland, Robert H., 1B	Friona
Loper, Gene Milton, 1E	Dallas	McGee, Roy Emerson, 1E	Borger
Lord, James Coy, 1G	Clovis, N. M.	McGinty, Albert, 2A	Eldorado
Loter, Henry David, 4G	Kirkland	McGough, Jack, 1G	Peacock
Lott, Woodrow Wilson, 2E	Slaton	McGowan, Jack, 2A	Claude
Loughridge, Catherine B., 3H	Big Spring	McGrady, John Bernard, 3E	Cisco
Loughridge, James Allen, 4E	Waco	McGregor, Edna Earl, 4H	Knott
Love, Ima Jewell, 2Ed	Anton	McGuire, Clois, 1B	Memphis
Love, Joe, 1B	Lubbock	McGuire, Travis, 1B	Memphis
Lovell, Jonnie, 1G	Dickens	McGuire, Willie Marie, 1H	Vera
Lowe, Vora, 4B	Lubbock	McIlroy, Mary, 1G	Lubbock
Lowry, John Mark, 3E	Plainview	McIntosh, Margaret Lee, 1H	Ft. Worth
Loyd, Aubrey Carroll, 1B	Amherst	McKay, Laverne, 1H	Lamesa
Luce, William, 4E	Lubbock	McKee, Frances, 2G	Lubbock
Luckie, Margaret, 1Ed	Brownfield	McKeever, Edward C., 4G	Spafford
Luna, Kinard Lamar, 1A	Canyon	McKelvey, W. H., 2B	Lubbock
Lundell, Eugenia Elinor, 1B	Lubbock	McKenney, Rex T., 1A	Westbrook
Luper, Carlton E., 2E	Houston	McKinsey, Lois, 3H	Abernathy
Lupton, Richard, 1G	Shallowater	McKnight, Alvin, 1E	Hale Center
Luttrall, Dave, 2S	Ralls	McKnight, Watson, 1G	Paducah
Luttrell, Ed, 1S	Vernon	McLaughlin, Bruce, 1A	Lubbock
Lynch, Duard, 1G	McLean	McLaughlin, Lloyd, 2B	Lubbock
Lynn, Wilton E., 3G	Lubbock	McLaury, Lee, 1E	Jayton
Lytle, Bonner, 2Ed	Quanah	McMahon, Bonnie, 2Ed	Lubbock
Lytle, Ovel, 2H	Quanah	McMahon, Opal, 1G	Lubbock
McAllister, Margaret, 2G	Boulder, Colo.	McManis, Velma, 1 Ed	Tahoka
McAllister, Winburn B., 1A	Delphos, N. M.	McMurry, William Jackson, 1S	Colorado
McAnally, Lawrence B., 3G	Hico	McNeese, Craig, 4E	San Antonio
McAngus, Eli, 2E	Eldorado	McNulty, Stacy, 2E	Borger
McArthur, Maurine, 2G	Spur	McPherson, Frank, 2E	Lubbock
McAuley, Birdie Lee, 1Ed	Shallowater	McRee, F. L., 4 E.	Lubbock
McCarroll, John, 1S	Moheetie	McSwain, John D., 1E	Olton
		McWhirter, Laverne, 1H	Roby
		McWhirter, Ruth, 1B	Roby

McWilliams, Bennie, 3G	San Benito	Meador, Joe Thomas, 1E	.....
McWilliams, Thomas, 1A	.....	.....	Whitewright
.....	San Benito	Medford, Margaret Mary, 3G	Avery
McWilliams, Varner, 1A	Whiteflat	Melton, James Roy, 1G	.....
Macha, Lebusa, 1H	.....	.....	Burkburnett
Mackay, Hector, Jr., 1B	Lubbock	Menninger, Gus, 1S	Amarillo
Madara, Roland Elwood, 1E	.....	Merrell, Edwin Hugh, 1E	.....
.....	Alvin	.....	Shallowater
Maddox, Don, 4E	Lubbock	Merriman, Mrs. Helen, 5G	Lubbock
Maddox, Douglas, 1B	Oakwood	Merriman, Wayland, 1E	Wheeler
Maddox, F. M., 2G	Lubbock	Messersmith, Lawrence, 3G	.....
Maddox, R. Padgett, 1B	Lubbock	.....	Ft. Worth
Maedgen, Chas. E., 3G	Lubbock	Messersmith, Marvin, 4E	.....
Magar, Billy Monroe, 1G	Krum	.....	Ft. Worth
Magee, Ruth, 2G	Lubbock	Messick, Jessie Mae, 1G	Wellington
Magee, Virginia, 2G	Levelland	Meyers, Elaine, 1Ed	Lubbock
Maggart, J. W., 4Ed	Stanton	Meyers, O'Quin, 4E	Lamesa
Maggart, Woodrow, 1G	Stanton	Meyers, R. L. Jr., 2G	Lamesa
Mallard, J. Willful, 5Ed	.....	Michael, Rex, Jr., 2B	Franklin
.....	Vaughn, N. M.	Michie, James, 1B	Brownfield
Mallett, James Clayton, 2S	Lubbock	Michie, Sue, 3E	Lubbock
Maloney, Margaret, 2S	Goree	Middlebrook, Faye N., 1H	.....
Maner, Bailey, 2A	Hillsboro	.....	Shallowater
Manire, Edmond LeRoy, 3E	.....	Miller, Don Chester, 2A	Greenville
.....	Slaton	Miller, Edgar, 1A	Plainview
Mann, Jack Henry, 1E	Pampa	Miller, Fred C., 3E	Granbury
Manning, John, 2A	Ft. Worth	Miller, Loraine, 1E	San Angelo
Mapes, Fred, 1A	Dimmitt	Miller, Mittie Mallyveen, 1G	.....
Mapes, Joe, 2E	Dimmitt	.....	O'Donnell
Marks, Roy Leon, 2A	Clovis, N. M.	Miller, Powell, 1B	Lubbock
Marr, John Winton, 2S	Lamesa	Miller, Vanis Eschol, 1E	Seymour
Marr, Lloyd Mitchell, 2G	Lamesa	Miller, Verl, 1H	Floydada
Marriott, Pauline J., 1Ed	Slaton	Mills, Arthur Oliver, 1A	.....
Marse, John J., 2G	Taylor	.....	Sterling City
Marshall, Carl, 1G	Floydada	Mills, Beatrice, 1H	Lubbock
Marshall, Charles Douglas, 2A	.....	Mills, Bonnie Alene, 2G	Lubbock
.....	Graham	Mills, Rufus Edward, 3S	Omaha
Martin, Curtis T., 1E	Westover	Millsap, Laurene, 3G	Lubbock
Martin, J. Harrison, 1G	Lubbock	Milstead, Oleta, 1G	Lubbock
Martin, J. T., 1A	Westover	Minor, Edward, 3B	Lubbock
Martin, J. W., 1E	Stamford	Minter, Marlin P. J., 4E	.....
Martin, Lois Inez, 2S	Ralls	.....	Sulphur Springs
Martin, Malcolm, 2B	Lorenzo	Minton, John Rector, 1S	Anton
Martin, Mary, 1B	Lubbock	Minzenmayer, Adolph, 2S	Winters
Martin, Mary Belle, 1H	Jacksboro	Mitcham, James Troy, 3E	Dallas
Martin, Opal, 1Ed	Sparsenburg	Mitchell, C. E., 2E	Slaton
Mashburn, Terrell, 1A	Merkel	Mitchell, Eugene R., 4B	Collinsville
Mason, Robert L., 1S	Post	Mitchell, Robert Carroll, 2A	.....
Massay, Winfred, 4B	McLean	.....	Lockney
Massey, Eugene Edward, 1E	.....	Monroe, Carver, 2S	Silverton
.....	Friona	Montague, Gordon, 1E	Silverton
Massey, Elizabeth A., 1B	Friona	Montfort, Alice Eliz., 3A	Lubbock
Mast, John, 5S	Lubbock	Montgomery, Doris, 1G	Darrouzett
Masterson, Tom, Jr., 1A	Truscott	Montgomery, Clyde Aaron, 1A	.....
Mathis, Martha, 1G	Lubbock	.....	Littlefield
Mathis, Mary, 1G	Lubbock	Montgomery, Grace, 1B	Tahoka
Matthews, Erma Drue, 1G	.....	Montgomery, John Edward, 2E	.....
.....	Petersburg	.....	Amarillo
Matthews, Ersel, 1E	Floydada	Montgomery, Marietta, 1B	Tahoka
Mauldin, Hulon, 1G	Electra	Montgomery, Woodrow, 3G	.....
Maxey, Carl, 1S	Lubbock	.....	Lubbock
May, James Duey, 2B	McKinney	Moody, Joe, 4S	Hawkins
May, Zona Elizabeth, 5G	Lubbock	Moore, Alma, 2S	Shallowater
Mayfield, Harold, 1E	Temple	Moore, Charles, 2Ed	Lubbock
Mayhugh, Frances, 2G	Plainview	Moore, Frances, 1G	Ralls
Mayhugh, Margaret, 2G	Plainview	Moore, Jack McClellan, 1E	Spur
Mayo, Erle, 3E	Eastland	Moore, John F., 1A	Spur
Meacham, Jesse Lee, 1B	Turkey	Moore, Mrs. Lillie Dale, 4G	Ennis

Moore, Mildred, 1Ed	Levelland	Newton, Glen, 2E	Idalou
Moore, Monta J., 1G	Merkel	Newton, John, 3E	Idalou
Moore, Mrs. Naomi Cox, 1G	Lubbock	Niblack, Thomas A., 1B	Lubbock
	O'Donnell	Niblack, Jack Magee, 2A	Lubbock
Moore, Oleta, 2H	O'Donnell	Nichols, Pike, 1B	Spur
Moore, Ray Cameron, 4G	Hamilton	Nichols, Martha F., 1G	Spur
Moore, Reuben Jackson, 2B	Frost	Nichols, Walker, 2G	San Angelo
Moore, Ruth Maurine, 2G	Lott	Nicholson, James Baker, 1E	Hamilton
Moore, Thomas Lee, 1A	Roby		Blum
Moore, Wade, 1H	Kilgore	Nickens, Zoe, 2G	Lubbock
Moore, William, 1E	Lubbock	Nissley, Jean Davies, 2B	Lubbock
Moorhead, Durward, 1B	Meadow	Nix, James Pat, 1G	Lubbock
Morgan, Carrell, 1G	Dallas	Nixon, George, 2B	Harrold
Morgan, Mrs. J. O., 5G	Lubbock	Nixon, Walton, 4A	Waco
Morgan, Mattie, 3Ed	Whitney	Noah, Eugene, 1B	Seymour
Morgan, Nora Lee, 1G	McLean	Noah, Gladys Margaret, 1Ed	Wheeler
Morris, Mirion Cecil, 1G	Kirkland	Noell, Virginia Ruth, 1G	Ralls
Morris, Franklin James, 1G	Sherman	Nolen, Eloise, 1Ed	Big Spring
	Seymour	Norris, Almon Don, 1B	Notla
Morris, G. B., 3G	Slaton	Norris, Jessie, 1G	Lamesa
Mosely, Henry F., 1G	Colorado	Norton, Obie, 3A	Dallas
Mosley, Reginald Guy, 2G	Winters	Nowlin, Carl, 1A	Tahoka
Mosley, Lee Roy, 1G	Amarillo	Nowlin, Miles Jackson, 1B	Cleburne
Mothershead Finis, C., 3G	Lubbock	Nowlin, Walter C., 1B	Houston
Moxley, J. Mason, 3G	Lockney	Nunnally, C. C., 1A	O'Donnell
Mullings, Fred, 4Ed	Lubbock	Nystel, Garland A., 2E	Abernathy
Mullins, Doris, 3G	Lubbock	Nystel, Merrel E., 1H	Abernathy
Mullins, Johnnie Lucille, 1G	Lubbock		Wickett
	Amarillo	O'Brien, Georgie, 1H	Lubbock
Munn, John D., 1B	Wichita Falls	Odom, Lorena, 2G	Lubbock
Murchison, Jack T., 2E	Lubbock	Oglesby, Inez, 1S	Lubbock
	Lubbock	OhHair, Rob, 4G	Lubbock
Murphey, Jewel, 2G	Ulysses, Kans.	Ohlenbusch, Lena, 1Ed	Loraine
Murphy, Emmett, 1A	Bartlett	Olbeter, Louis, 2S	Clayton, N. M.
Murphy, Jeff, 2G	Lubbock	Old, Robert, 1E	Bonham
Murray, Billie, 3A	Lubbock	Oliphint, Lorene, 2G	Quanah
Murray, Ethel, 2E	Lubbock	O'Neill, Chas. Ford, 4G	Lubbock
Myrick, Elizabeth Roberts, 1G	Slaton	O'Neal, Clifford, 1A	Lubbock
	Lubbock	O'Neal, Townsend R., 4S	Lubbock
Myrick, Roberta, 4G	Lubbock	Ooley, Roy, 1E	Plainview
	Hermleigh	O'Rear, Jerome M., 1S	Lorenzo
Nachlinger, Helen, 2G	Petrolia	Orr, Mark, 2S	Idalou
Nail, J. H., 2G	Turkey	Osborne, Wm, Harold, 3A	Miami
Nall, Marv Ruth, 1G	Justiceburg	Overstreet, Audrey, 1E	Lubbock
Nance, Mina R., 1Ed	LaRue	Overton, Robt. Wagner, 1S	Lubbock
Nash, Bettie Mae, 1H	Coahoma	Owen, Robert Allen, 1A	Sanderson
Neel, Jessie Ward, 1E	Littlefield	Owen, Truett Leon, 2S	Sherman
Neely, Herbert H., 1G	Lubbock	Owens, Lorena Leslie, 1G	Lubbock
Neill, Billy, 3E	Cleburne		Littlefield
Neill, Frank F., 2B	Van	Pace, Joye, 1H	Slaton
Neill, Harold Smith, 1A	Brownfield	Pack, Betty Frances, 1G	Ft. Worth
Neill, Jim Hubert, 1Ed	Lubbock	Page, J. T., 3E	Albany
Nelson, Lomer, 3G	Hereford	Palmer, Morris Nail, 2E	Lubbock
Neves, Madeline, 1B	Ft. Worth	Pancake, Micky, 3G	Lubbock
Newell, Elaine, 1Ed	Canadian	Pardue, Winona, 4G	Lubbock
Newell, Francis Elwood, 2E	Crane	Parish, Lillian, 2G	Big Lake
	Meadow	Parker, Cecil, 1S	Goldthwaite
Newell, Valeska Louise, 1B	Lubbock	Parker, Edwin Davis, 3S	Wellington
	Lubbock	Parker, John Merle, 2A	Seminole
Newland, Ellamae, 1H	Lubbock	Parker, Robert Escar, Jr., 1A	Lubbock
Newman, Homer, 1B	Lubbock		Garden City
Newman, Mabel A., 4G	Lubbock	Parker, Weldon, 2B	Amarillo
Newman, S. T., 2A	Lubbock	Parkinson, Frances, 4S	Cleburne
Newsom, Mrs. Eva, 4H	Lubbock	Parks, Joshua, 3E	Lubbock
Newsome, Iva May, 2G	Plainview	Parrish, Ruby, 2Ed	Lubbock
Newsome, Lois, 1G	Floydada	Parris, Ursula, 3H	Bradshaw
Newton, Frances Louise, 1B	Farwell	Parsons, L. E., 3E	Sylvester

- Partain, Birdie Faye, 1Ed. Lubbock
 Patterson, Howard, 2E Lubbock
 Patterson, Ila Steele, 4G. Quitaque
 Patterson, Leotis, 1H Petersburg
 Patillo, Paul, 2Ed Lorenzo
 Patty, William Elwood, 1E Lubbock
 Paulsel, Lois, 1G Alice
 Payne, Beatrice, 2S Slaton
 Payne, Herman, 1G Lubbock
 Payne, James Banton, 2E O'Donnell
 Payne, Hollis Lee, 1A Lubbock
 Pearce, William, 3G Lubbock
 Peden, Jowell Lacy, 1E Roscoe
 Pederson, M. G., 5A Clifton
 Pederson, Oscar Noble, 3B. Clifton
 Penn, Fred, 2G Hobbs, N. M.
 Penny, Earl Barnett, 2S Lubbock
 Perkins, Everett, 4E Ennis
 Perrin, Dick, 3A Navajo, Ariz.
 Perry, Edgar, 2A Lubbock
 Perry, Roceil, 1H Levelland
 Peters, Loftin, 1B Levelland
 Peterson, Vaughn E., 2B Lubbock
 Pettit, Bazel, 1A McLean
 Peveto, Audrey, 4G Lubbock
 Pfarr, Louise, 3G White Deer
 Phifer, Beulah Mae, 1G McAadoo
 Phillips, Alton, 1A Lubbock
 Phillips, Billy Ross, 1B Hereford
 Phillips, Delbert, 1B Iowa Park
 Phillips, Florence Anne, 1G Wellington
 Phillips, Pauline LaVerne, 1G Lubbock
 Phillips, Raymond, 3S Thalia
 Pierce, Joe Seller, 1A Ozona
 Pierce, Martha Lee, 1B Farwell
 Pierce, Mildred, 1H Lubbock
 Pierce, Roger Q. Jr., 4Q Lubbock
 Piercy, Helen, 3G Lubbock
 Pigg, Mary Corinne, 3G Vernon
 Pinkerton, Ward, 1S Plainview
 Pinkston, James Turner, 1E. Slaton
 Pinson, Mary Frances, 1G Capulin, N. M.
 Pirtle, Carter Beryl, 1E Green River, Wyo.
 Pittman, Lewis Newton, Jr., 2S Amarillo
 Pitts, Christina, 4G Hillsboro
 Pitts, Lilla Belle, 3Ed Lubbock
 Pitts, Lois Marie, 2G Lubbock
 Plain, Billie, 4G Lubbock
 Plemons, Clyde Harris, 1G. Plaska
 Plemons, Elmore Sims, 4B. Matador
 Plemons, Virginia Phillips, 2B. Wellington
 Poe, T. B., 2A Winters
 Polk, Neta, 1H Brownfield
 Pool, Juanita, 5G Lubbock
 Pool, Phyllis, 3G Lubbock
 Poole, William Gilbert, 2S. Dallas
 Pope, Royce, 2A Eastland
 Popejoy, Ruby Jo, 1G Lubbock
 Porter, Helen, 1Ed Dickens
 Potts, Bill, 2E Lubbock
 Potts, Jim Frank, 4E Lubbock
 Potts, Wayland, 2A Lubbock
 Powell, Clayton, 2E Clarendon
 Powell, Irene, 1H Colorado
 Powell, Frances Josephine, 1G Lubbock
 Powell, Nell Marie, 1Ed Post
 Power, Bill, 1G Spur
 Power, James, 2G Post
 Powers, Joe Bailey, 3G Lubbock
 Powers, Woodrow, 2E Lubbock
 Pratas, George, 4B Breckenridge
 Preston, Ora, 1H Sudan
 Prestwich, Arthol Thomas, 3S Idaho Falls, Idaho
 Prewitt, J. B., 1B Ralls
 Pribble, Foy E., 2A Hamlin
 Price, Christine, 5G Lubbock
 Price, Harlan B., 3A Lingleville
 Price, Howard, 3G Lubbock
 Price, Howard A., 1A Lubbock
 Price, Paton, 1G Lubbock
 Price, Troy McDonald, 1S Lubbock
 Price, James Yancy, 3G Lubbock
 Priddy, Laurence, 4S Gainesville
 Priddy, Mrs. Laurence, 3G Gainesville
 Priest, Benjamin, 2E Rusk
 Prim, John Norman, 1B Cawthron, Ark.
 Prichard, Arthur, 5A Lubbock
 Probasco, Denzil, 3E Floydada
 Putnam, Mrs. Varina B., 2Ed Lubbock
 Pyeatte, Johnnie Verle, 3B Lubbock
 Quinlan, John Ambrose, 1E Lubbock
 Ragsdale, Robert Lee, 1E Childress
 Rampey, Woodrow, 2B Lubbock
 Ramsey, Herschel, 1B Chillicothe
 Randall, Jean, 1B Artesia, N. M.
 Randolph, Nelda, 1H Lamesa
 Rankin, John Stephen, 5G Kenna, N. M.
 Ranson, Ralph, 1Ed Lamesa
 Ratliff, Charlotte Hopkins, 1G Lubbock
 Rawlings, Eldon, 1B Lubbock
 Ray, Ambrose Dudley, 1S. Cleburne
 Raybon, Roberta, 1H Lubbock
 Rayburn, John, 3G Slaton
 Rayburn, Robt. Watterson, 3G Slaton
 Raymond, Floyd, 1E Conroe
 Read, John G. Jr., 3G Hillsboro
 Read, Robert Lee, 1E Silsbee
 Reaves, Ponice, 1S Lubbock
 Reddell, Elsie Marie, 4G Plainview
 Redmond, W. Edward, 3E Marshall
 Reed, Glenn, 1A Corsicana
 Reed, Jack Elbert, 1A Pampa
 Reed, James Howard, 2E Lubbock
 Reed, Myrtle, 3G Ft. Worth
 Reed, Pauline, 1G Cone
 Reese, Harry Edwin, 1B. Royce City
 Reeves, Winston, 2E Plainview

- Reinken, Elsie, 1E Plainview
 Reinken, James, 1B Plainview
 Reynolds, Leo Leonard, 1E Quanah
 Reynolds, Mrs. Mayne D., 3Ed
 Dickens
 Rhea, Regina, 2H Lubbock
 Rhodes, Albert Durwood, 1G
 Franklin
 Rice, Dorothy, 1G Meadow
 Richards, Floyd Holt, 1G Dalhart
 Richards, Norma, 1H Olney
 Richardson, J. W., 1E Lubbock
 Richardson, Lee, 2B Megargel
 Richeson, Warren W., 5S Lubbock
 Richter, Hugo, 1E Abernathy
 Richter, Jimmie, 3B Taylor
 Richels, Frankie Thelma, 1H
 Brownfield
 Riegel, Zella E., 5G Lubbock
 Riddel, Roy, Jr., 1S Lubbock
 Riden, Helen Ruth, 1S Crane
 Riemer, Mathilda, 3Ed Spearman
 Riethmayer, Elsie, 4G Lamesa
 Rigler, Arthur Bert, 2A Plainview
 Riley, Evans, 3E Lubbock
 Riley, John Lemuel, 1A Lubbock
 Rippes, James, 3E Big Spring
 Roach, Cecil, 1A Rotan
 Roach, Harriette, 4G Lubbock
 Roberson, Henry Linn, 4S Lorenzo
 Roberson, Hugh B., 3Ed Lubbock
 Roberts, Charles F., 3S Caradan
 Roberts, Frank LaRue, 2B
 Perryton
 Roberts, George, 1G Caradan
 Roberts, Henry Alfred, 2S Lubbock
 Roberts, Hope B., 1G Lubbock
 Roberts, James Henry, 3G Lubbock
 Roberts, Joe Ben, 2E Crowell
 Roberts, Julia Grace, 1H Lubbock
 Roberts, Minyard, 2Ed Levelland
 Roberts, Rector Preston, 5S Dallas
 Roberts, Robert, 1B Perryton
 Roberts, Wilbur E., 1G Lubbock
 Roberts, Stiles Moxley, 4E Lubbock
 Robertson, Margaret C., 5Ed
 Lubbock
 Robinson, Mary Inez, 1G Lubbock
 Robinson, Raymond, 2G Post
 Robinson, Roy Osban, 1E Lubbock
 Robison, Polk, 4G Lubbock
 Robison, Totsy Nell, 1G Ozona
 Rockey, Glenn, 1G Muleshoe
 Roe, Gertie, 3S Brownfield
 Rogers, Dwain, 1E Lubbock
 Rogers, Hildron, 3S Lubbock
 Rogers, Jesse A., 4S Houston
 Rogers, Willie, 2A Lubbock
 Rohrer, Helen, 1H Springtown
 Rohrer, Vern, 2A Springtown
 Rollins, Ida Lee, 2G Littlefield
 Rollo, Kenneth, 3S Lubbock
 Rose, Glenn, 1E Roaring Springs
 Rose, Jessie Mae, 2H Ropesville
 Rose, Minnie Katherine, 3H
 McAdoo
 Rose, Luceil, 2H McAdoo
 Ross, Douglas Wm., Jr., 4E
 Washington, D. C.
 Ross, Samette E., 2B Plainview
 Roussel, Wm. Arthur, Jr., 4E
 Brownwood
 Rowe, E. S., 1E Littlefield
 Rowley, Theodore, 4E San Antonio
 Roxburg, Loyd, 1Ed Wilson
 Royalty, Catherine, 2G Lubbock
 Royalty, Marion, 3E Lubbock
 Rucker, Mildred Ruth, 3G Slaton
 Rule, Herbert, 1E Lamesa
 Rummell, William, 1G Vernon
 Rushing, Bernie Elmer, Jr., 1G
 Plainview
 Rushing, Cecil M., 2G Plainview
 Russell, Nellie Reeve, 1H Ysleta
 Russell, Stillwell, 1G Levelland
 Rust, George Foster, 2A San Angelo
 Rustin, Lee P., 1G Lorenzo
 Rutledge, David, 2G Ft. Worth
 Rutledge, Ruth, 2G Floydada
 Rylander, Ruth Mildred, 4G
 Lubbock
 Sams, Van Earl, 4E Benjamin
 Samson, Gertrude, 3H Post
 Sanders, A. C., 3S Lubbock
 Sanders, Hugh Wallace, 2G Haskell
 Sanderson, Lena Grace, 4G
 San Saba
 Sasser, William Lee, 1E Bonham
 Scarbrough, Benj. W., 4B Lubbock
 Scharnberg, Curtis R., 3A Lubbock
 Schneemann, Jane, 1G San Angelo
 Schofield, William, 2B Lubbock
 Schuhart, Eldon G., 1E Dalhart
 Schultz, Howard, 2E Eden
 Schumpert, Leon, 1B Portales, N.M.
 Schumpert, Melvin C., 3B
 Portales, N. M.
 Schwalbe, Cecil O., 4S Jonesboro
 Scoggin, John Harvey, 1B Lubbock
 Scoggin, Mack, 2B Lubbock
 Scoggin, Wilma Bartlett, 4Ed
 Lubbock
 Scott, Howard Winfred, 4S
 Madill, Okla.
 Scott, Mable Claire, 2Ed Childress
 Scott, Marjorie, 3B Lubbock
 Scott, Mary, 2G Lubbock
 Scott, Mary Alyce, 3G Wichita Falls
 Scott, Nina, 2G Lamesa
 Scott, Osceola, 1B Claude
 Scott, Wendell, 2S Plainview
 Scudder, Crystelle, 1G Slaton
 Seale, Orris, 2A Lorenzo
 Seaman, Orland, 3B Mineral Wells
 Sears, Enid, 2G Snyder
 Sears, Dovie Lorraine, 3S Lubbock
 Seely, Stella Rube, 2H San Angelo
 Self, Adelaide, 2G Quitaque
 Self, Mary Frances, 3H Crowell
 Senn, Velma Lee, 1G Dexter, N. M.
 Senter, Ruth, 2H Teague
 Shadle, Hermona, 2G Aspermont
 Shaffer, Weldon, 1B Sudan
 Shahan, Everett, 1E Lipscomb
 Shannon, Katherine, 2G Levelland

Shannon, Mary Lucy, 3G	Levelland
Shaver, John, 1G	Lubbock
Shaw, Jyles Wayne, 1S	Lubbock
Shaw, Marion, 3G	Littlefield
Sheats, Kathryn, 2H	Matador
Sheehan, James Evans, 1E	Graham
Shell, Wm. Pinkney, 1E	Ralls
Sherer, S. E., 1G	Girard
Sheridan, Woodrow E., 1Ed	Sweetwater
Sheriff, Etha Ethlyn, 2G	Farwell
Shields, Doris, 4H	Lubbock
Shipman, Lawrence, 3A	Fluvanna
Shirley, Cecil, 4B	Abernathy
Short, Jimmie Lois, 2H	Lubbock
Short, Nina Ruth, 1Ed	Meadow
Shultz, Billie, 1G	Lubbock
Shultz, Southern, 2E	Lubbock
Sides, Laurence, 1A	Lubbock
Sikes, Lowell, 1E	Mt. Pleasant
Simpkins, Jewell Marie, 4G	Ralls
Simmons, Clyde Wilton, 2G	Commerce
Simmons, E. Clifford, 4E	Santa Anna
Simmons, Eleanor, 4G	Lubbock
Simmons, Frances, 1H	Lubbock
Simmons, J. A. Jr., 1E	Post
Simmons, J. B., 1B	Lubbock
Simmons, J. P., 1G	Lubbock
Simmons, Mrs. Kathryn M., 2S	Portales, N. M.
Simms, George Harold, 4B	Lubbock
Simpson, Ray, 1B	McKinney
Sims, Archie, 2G	Lubbock
Simms, Lucille, 1Ed	Post
Sims, Virginia Allen, 2H	Lubbock
Singleton, Horace Page, 1E	Slaton
Sisk, Melvin Oletha, 1G	Slaton
Sizer, Mary L. Armstrong, 1G	Corpus Christi
Skinner, George, 1E	Lubbock
Sloan, Evelyn, 2G	Crowell
Smiley, Bessie Mae, 2Ed	Roaring Springs
Smiley, Willie, 1Ed	Roaring Springs
Smith, Charles, 2G	Big Spring
Smith, Del, 2B	Brownfield
Smith, Doris, 2B	Lubbock
Smith, Floise, 1H	Lubbock
Smith, Elton, 5S	Sweetwater
Smith, Emma, 2G	Childress
Smith, Esther, 2H	Tahoka
Smith, Eugenia, 4G	Sherman
Smith, Mrs. F. P., 4Ed	Abilene
Smith, Garland, 4G	Lubbock
Smith, Georgia Mae, 2H	Crosbyton
Smith, James A., 1G	Lamesa
Smith, J. Frank, 1G	Taylor
Smith, Jewell, 3S	Slaton
Smith, Judge Cooper, 2B	Slaton
Smith, J. H., 2G	Big Spring
Smith, J. P., 3A	Littlefield
Smith, Lee, 2E	Seminary Hill
Smith, Lloyd H., 2E	Gainesville
Smith, Louise, 1G	Meadow
Smith, Lucille, 2G	Gem
Smith, Maxene, 4G	Lubbock
Smith, Nathan, 1E	Lovington, N. M.
Smith, Newton Chas. Jr., 1G	Amarillo
Smith, Orville, 3G	Lubbock
Smith, Preston, 4B	Lamesa
Smith, Ray, Jr., 1E	Mineral Wells
Smith, Tommy Elizabeth, 1G	Ozona
Smith, Wayne, 2B	Weatherford
Smith, William, 1A	Floydada
Smyth, Jot, Jr., 3A	Lubbock
Sneed, Alton, Jr., 3Ed	Lubbock
Snell, Mary, 1G	Lubbock
Snider, Jonnie K., 1H	Lubbock
Snider, Simon Stokes, 1S	Crosbyton
Snider, Willie Warren, 4H	Crosbyton
Snodgrass, Floyce A., 4Ed	Lubbock
Snodgrass, Hugh Thomas, 1G	Lubbock
Snodgrass, Norman K., 4A	Munroe
Snyder, Frances, 3B	Lubbock
Snyder, Fred, 1E	Lubbock
Snyder, Morris D., 1B	Moran
Snyder, Homer Halph, 2B	Moran
Sodd, Jacob, 1E	Ft. Worth
Sollis, L. J., 3G	Sherman
Southworth, Herbert R., 5G	Lubbock
Sowder, Ima Lee, 1H	Idalou
Sowell, Kathryn, 2Ed	Lubbock
Sowell, Wayman, 1E	Ralls
Spalding, Harold M., 2S	Marshall
Sparks, Leon O., 3E	Saltillo
Sparks, Richard, 1A	Foard City
Sparks, Robert Earl, 4E	Abilene
Spaulding, Annie Byrd, 3G	Dalhart
Spaulding, Evelyn, 1G	Dalhart
Spears, Lewis M., 1G	Wilson
Spears, Loyd B., 1E	Ft. Worth
Spears, Otis, 1G	Tahoka
Speer, Anibel, 1H	Dickens
Speer, Leo Edison, 1A	Dickens
Spencer, Charles A., 2A	Athens
Spencer, John Evan Wm., 1S	Lubbock
Spikes, Mrs. Addie, 3G	Lubbock
Spikes, Wilda, 4H	Ralls
Spikes, Wilma, 4H	Ralls
Spraggins, Robert Darwin, 1E	Sherman
Spraggins, Lois, 1H	Sherman
Springer, Grover, 2G	Lenorah
Spuhler, Frank, 4E	Tucumcari, N. M.
Spurlock, Brooksy Mae, 1G	Lubbock
Spykes, Virginia, 2G	Hermleigh
Spykes, Weta, 2G	Hermleigh
Squyres, Paul G., 2E	Lubbock
Stadig, Elizabeth, 1B	Palacios
Stafford, Donovan, 2S	Lubbock
Stahler, Charles L., 2E	Lubbock
Stahler, Robert F., 1S	Lubbock
Staley, Alan, 1A	Clayton, N. M.
Stallings, Kathryn, 3G	Post
Stalnaker, Margaret K., 3H	Lubbock

Stanard, Floy H., 1B	Pampa	Sullivan, James, 1G	Wellington
Standhardt, Frank M., 3E		Sullivan, Verna Mae, 2H	Wolfthorht
	Roswell, N. M.	Surrat, David, 2S	Clint
Stanfield, Azalea, 2H	Anton	Sutton, Billie Marie, 2G	Muleshoe
Stanford, Mary Eliz., 1H	Hereford	Swafford, Mildred, 3G	Slaton
Stanphill, Vinson C., 2G	Denison	Swain, Alton, 3Ed	Lubbock
Stanton, Billy, 4E	Lubbock	Swan, Athalie, 1S	Lubbock
Stanton, Mary Emma, 1B	Lubbock	Swann, Lloyd, 1B	Wilson
Staples, Harvey Dolphus, 1S	Idalou	Sweatt, Carolyn B., 1G	
Stayton, Logan, 3S	Wichita Falls		Malaga, N. M.
Steele, Roberta, 3H	Levelland	Sweatt, Merle, 1G	Malaga, N. M.
Steen, E. R., 4A	Graham	Sweet, Edwin, 2G	Blackwell
Stephens, Dorothy, 3H	Lubbock	Sweepston, Mary Anne, 1Ed	
Stephens, Jack, 2E	Cleburne		Floydada
Stevens, LaVerne, 1A	Littlefield	Swift, Frances Edwin, 1G	
Stevens, Sarah Lou, 3Ed	Coleman		Knox City
Stevenson, Glenn, 2S	Lockney	Symes, Clinton Albert, 1B	Lubbock
Stevenson, Wood, 1S	Lockney		
Stewart, Anice, 2H	Lubbock	Tagert, Imogene, 2B	Corpus Christi
Stewart, Frances, 2Ed	Lubbock	Talbert, Mrs. Hilda I., 1B	Paducah
Stewart, Gladys E., 3H	Canyon	Tannahill, John, 1E	Paducah
Stewart, Harold H., 1E	Balmorrhea	Tarpley, Ruth, 1G	Brownfield
Stewart, Lenora, 4Ed	Waco	Tarrance, Russell, 1B	Lubbock
Stewart, Sara Sue, 1G	Lubbock	Tarwater, Julia M., 1B	Plainview
Stewart, Thomas H., Jr., 5S		Tate, Vera Mae, 2G	Lubbock
	Lubbock	Tatom, L. C., 2B	Lubbock
Stiff, Ray, 1E	Hobbs, N. M.	Tatum, John E., 2E	Lubbock
Stiles, Zona, 4G	Annona	Tatum, Miriam L., 1H	Lubbock
Still, Charles A., 2A	Ft. Worth	Taulman, Parker, 4G	Ft. Worth
Stillwell, Ray, 5G	Lubbock	Taylor, Floyce, 1H	Lubbock
Stine, Lulu, 5G	Henrietta	Taylor, Haskell, 1B	Dickens
St. John, Marjorie E., 2G		Taylor, Joe B., 3A	Lubbock
	Roswell, N. M.	Taylor, Larry T., 3E	Lubbock
Stocking, Jerome, 2S	Plainview	Taylor, J. Margaret, 1Ed	
Stokes, Arledge, 4E	Abilene		Clovis, N. M.
Stokes, Laura Eliz., 1G	Bonham	Taylor, Pearl Woods, 3Ed	Lubbock
Stokes, Erma N., 2Ed	Lubbock	Teague, Myrtle, 1G	Slaton
Stokes, W. T., 3B	Lubbock	Teague, Sam Adkins, 1A	Lubbock
Stone, Frank Hill, 4E	Panhandle	Teal, Benton, 2A	Lubbock
Stone, Jimmie, 1S	Dallas	Temple, Wm. Paul, 2S	Temple
Stone, Mary Leta, 1B	Lubbock	Temple, Winnie, 2H	Lorenzo
Stout, Malcolm E., 1E	McLean	Terrell, Tol, 1S	Lubbock
Stovall, Eliz. Ann, 1E	Plainview	Terry, Irene Alice, 1Ed	Tahoka
Stovall, Genell, 2G	Floydada	Teston, K. Edd, 1G	Bledsoe
Strasner, Stevens, 1S	O'Donnell	Thomas, Bonnie, 4G	Lubbock
Strawn, Estle, 2S	Howe	Thomas, Carlton, 2E	Blum
Strawn, James Horace, 2A		Thomas, Charles, 4S	Lubbock
	Littlefield	Thomas, Geo. Terrell, 1S	Lubbock
Street, Bill, 2G	Littlefield	Thomas, J. C., 3B	Holliday
Strickland, J. D., 4A	Silverton	Thomas, Mary Alberta, 1H	Lubbock
Strickland, Mayvis, 1H	Silverton	Thomas, Mary Louise, 4H	Lubbock
Strickland, Robert, 3E	Lubbock	Thomas, Wm. T., 3E	Lubbock
Strickling, Jerry B., 1B	McKinney	Thompson, Arrilla, 1H	Lubbock
Stringer, Verlena, 3G	Vernon	Thompson, Arthur C., 1G	Hereford
Struve, Eugene Geo., 1G		Thompson, Ben Vernon, 1E	
	Hale Center		Lubbock
Stryker, Roy Thomas, 1B	Lubbock	Thompson, Carroll H., 4S	Lubbock
Stubbs, Edith, 2S	Lubbock	Thompson, Claude J., 2S	Lubbock
Stubbs, Wm. Frank, 3A		Thompson, Clay Edward, 2G	
	Corpus Christi		Lubbock
Stults, Carl, 5S	Dallas	Thompson, Gwendolyn, 4G	Lubbock
Sturdivant, Ira L., 4A	Springtown	Thompson, Jean Isabel, 1Ed	
Sturdivant, James F., 1E	Lubbock		Lubbock
Sturgeon, Gladys, 2A	Temple	Thompson, Robert Edward, 1S	
Sturgeon, Oletha, 3H	Lubbock		Tahoka
Suddath, Alice Jane, 1S	Levelland		
Sullivan, Harley Chestley, 2S			
	Temple		

Thompson, Ruth Anna, 4H	Lubbock	Vaught, Johnnie, 2G	Lubbock
Threadgill, Dave Thomas, 1A	Lubbock	Vickers, John, 2A	Lubbock
Threet, Homer, 1A	Lockney	Viles, Bill, 1B	Colorado
Thrift, D. C., 2G	Sanderson	Vowell, Jim Dent, 3E	Dalhart
Thurman, Bill, 1E	Olton	Wade, Bessie Helen, 3H	Water Valley
Tidwell, Eufa Grace, 1S	Slaton	Wages, Wm. Angus, 1G	Lubbock
Tilger, Orville L., 1B	Meadow	Waggoner, Woodrow, 3E	Ranger
Tinsley, Elizabeth Jane, 1B	Lubbock	Waghorne, Max Eliot, 4B	Lubbock
Tolbert, Hunter, 1S	Lubbock	Wagner, Chas. M., 2S	Amherst
Tolbert, Joseph Frank, 3G	Lubbock	Wakefield, Julian C., 1G	Corpus Christi
Tollett, Marvin H., 1B	Rogers, N. M.	Wakefield, Clarence, 2A	Corpus Christi
Toothaker, James, 3B	Downs, Kans.	Wakeland, Alvin, 1A	Waxahachie
Townsend, Doris Ernestine, 1H	Lubbock	Walker, Burnice, 1B	Littlefield
Townsend, George, 2A	Lubbock	Walker, Felix Scott, 1S	Lubbock
Townsend, Mark, 2E	Lubbock	Walker, James, 1E	Lubbock
Tracy, Robert Leon, 3G	Houston	Walker, Jean, 2G	Eastland
Traweek, Wm. Howard, 2G	Matador	Walker, John H., 4B	Bacone, Okla.
Trenary, Larry, 1S	Pampa	Walker, Katie, 3B	Conroe
Trigg, Ross, 2A	Wichita Falls	Walker, Merle, 2H	Britton
Trimm, Leo Claude, 2E	Belen, N. M.	Walker, Richard D., 1A	Ft. Worth
Triplett, Bertha Helen, 4Ed	Lubbock	Walling, Elwyn Lee, 3G	Big Spring
Triplitt, Rouble R., 2G	Lubbock	Walter, Frances, 1G	Lubbock
Trotter, Genevieve, 2G	Lubbock	Walter, John Arnold, 2G	Lubbock
Trotter, Hazel Lee, 1S	Lubbock	Ward, Dycie Edith, 2B	Roscoe
True, Martin, 2E	Lockney	Ward, Winnelle, 3H	Lubbock
Truett, Charles, 1S	Lubbock	Wardlaw, Louise, 2Ed	Ballinger
Tubbs, Billy Martin, 2S	Lubbock	Ware, Winnie Lois, 1H	Nolan
Turner, Carrie Bell, 1B	Lubbock	Warren, Alton, 3G	Separ, N. M.
Turner, Edna, 4H	Abilene	Warren, William, 1G	Lamesa
Turner, Geraldine, 2G	Lubbock	Waters, Hayes H., 2G	McLean
Turner, Helen, 1B	Santa Anna	Watkins, Alton, 1G	Kirkland
Turner, J. F., 2E	Santa Anna	Watkins, Donley E., 2S	Clayton, N. M.
Turner, Lacy Roy, 4Ed	Claude	Watkins, Eugene, 4E	Santa Anna
Turner, Ruby Phillips, 2H	Lubbock	Watkins, Orville, 2G	Meadow
Turner, Sidney Wilson, 1Ed	Girard	Watkins, Winston O., 1S	Clayton, N. M.
Twilla, Alfred Lloyd, 1E	Turkey	Watson, Chancy, 3E	Grand Saline
Tynes, Rex Abner, Jr., 1E	Lubbock	Watson, Darthula, 1H	Lamesa
Ullrich, Anton B., 4E	Waco	Watson, Edward, 2E	Grand Saline
Underwood, Laura Belle, 1H	Big Spring	Watson, H. B., 2S	Bridgetown
Underwood, Mrs. Zelda R., 5S	Lubbock	Watson, Lois B., 2G	Lubbock
Van Bebber, Jack F., 5A	Perry, Okla.	Watson, Martha Evelyn, 1H	Friona
Vandagriff, Dorothy, 3G	Lubbock	Watson, Melba, 3G	Lubbock
Vannoy, Clifford Dayle, 5B	Lubbock	Watson, Ross, 3E	Mineral Wells
Vannoy, Maurice Pearce, 5A	Lubbock	Watson, Tracy G. Jr., 2B	Mart
Vardeman, Marie, 1H	Richland Springs	Watson, Wendell, 2A	Lubbock
Vardy, James DeWitt, 1E	Estelline	Watts, Ed, 2B	Midland
Varnell, Robert, 2B	Barry	Watts, Ray, 4E	San Antonio
Varner, James Noah, 2G	Neosho, Mo.	Watts, Wayne, 2E	Breckenridge
Vaughan, John Henry, 1G	Lubbock	Weatherby, Lucille, 1B	Miles
Vaughn, Edward Davis, 2S	Lubbock	Weaver, Erma Joy, 2G	Jonesboro
Vaughn, Merlene, 1G	Tulia	Weaver, Lem, 4A	Slaton
Vaughn, Voyle, 2G	Lubbock	Weaver, W. Woodrow, 1G	Levelland
		Webb, Lowell, 1B	Midland
		Weddle, Chas. L., 2A	Bonham
		Weddle, Lora Lee, 1G	Bonham
		Weddle, Wilson Nelms, 4A	Bonham
		Wedeking, Ruby, 2B	Stamford
		Weimhold, Forrest H., 2G	Sudan
		Weimhold, Frances, 3H	Sudan
		Welch, Billy Joe, 2G	Floydada

Welch, Jack, 2A	Foard City	Williams, Reba Wayne, 2G	Lubbock
Wells, Arthur, 4S	Wellington	Williams, Vernon, 2B	Wolfe City
Wells, Mary Alma, 5G	Stanton	Williams, Wm. Robert, 1E	Sherman
Welty, Opal, 1G	Lamesa	Williamson, Mrs. Barnett G., 4Ed	Lubbock
West, Donald T., 1E	Hagermann, N. M.	Williamson, Louise Ada, 1Ed	Lubbock
West, James Vernon, 1E	Howland	Williamson, Mildred, 1G	Lubbock
West, M. E., Mrs., 3G	Lubbock	Willingham, Amel, 1B	Tahoka
West, M. E., 4B	Lubbock	Willis, Floy Mae, 1G	Wellington
Wester, Lewis Houston, 2B	Plainview	Willman, Kathleen, 2H	Muleshoe
Westerman, Nadine, 1G	Lubbock	Wills, Hood, 2A	Fluvanna
Wetsel, Margaret, 1G	Tahoka	Wilmeth, Roy, 1B	Spearman
Whately, Effie, 1G	Lubbock	Wilson, Betsy, 1G	Lubbock
Whately, Ernest, 1G	Lubbock	Wilson, Charles C., 1E	Tulia
Wheeler, Lucille, 1G	Tahoka	Wilson, Claude Nelson, Jr., 1E	Clovis, N. M.
Wherry, Gerald, 4E	Sunray	Wilson, Ed Thomas, 1Ed	Lake Arthur, N. M.
Whitaker, Naomi, 3S	Littlefield	Wilson, Claire Janette, 1H	Monmouth, Ill.
White, Charlotte, 2G	Corpus Christi	Wilson, Henrietta, 3H	Lubbock
White, Emmett, 2G	Portales, N. M.	Wilson, J. Alton, 3S	Knox City
White, Forrest Allen, 2S	Cleburne	Wilson, John Hiner, 1B	Lubbock
White, Lula Mae, 1G	Lubbock	Wilson, John Byrd, 2E	Lubbock
Whitefield, Blanche, 1H	Meadow	Wilson, Mary Louise, 1H	Lubbock
Whiteside, Dan, 1G	Littlefield	Wilson, Mrs. Oran G., 1G	Lubbock
Whitefield, Weldon, 1G	Friona	Wilson, Raymond L., 4Ed	Wellington
Whitlock, Mrs. Robert, 3Ed	Lubbock	Wilson, Ted, 1G	Sand Springs, Okla.
Whitworth, Carolyn, 1B	Lubbock	Wilson, Wm. Woodrow, 2A	Artesia, N. M.
Wicker, Geraldine, 2G	Slaton	Wilson, Wm. Woodrow, 2B	Louisville, Miss.
Wiginton, Saul Denton, 1B	Chillicothe	Wimberley, Russell Elwood, 2G	Lubbock
Wilbanks, Mrs. Floy Farrar, 4G	Wellington	Winfrey, Edwina, 1H	Ralls
Wilbanks, Fred C., 2A	Walnut Springs	Winn, H. R., 3E	Commerce
Wilbanks, Mary, 4H	Spearman	Winn, Verna, 1G	Lorenzo
Wilcox, Otto Edward, 1B	Lubbock	Winston, Mac, 2G	Lubbock
Wilder, Henry, 1E	Pampa	Winston, Mrs. Stella, 2H	Lubbock
Wilder, William, 4E	Pampa	Winter, DeCamp, 1S	Hobart, Okla.
Wiley, J. Jefferson, 2S	Lubbock	Winter, George H., 1B	Dallas
Wilhelm, Paul Houston, 1Ed	Lamesa	Winter, John DeLayne, 1S	Hobart, Okla.
Wilkerson, George Woody, 1E	McLean	Wischkaemper, Erolene, 2G	Shamrock
Wilkes, Floyd, 3A	Floydada	Wisdom, John Henry, 1G	Oklahoma City, Okla.
Wilkins, Paul Eugene, 2A	Levelland	Wiseman, Claude E., 1S	Sudan
Wilkinson, Russell, 1G	Lubbock	Withers, Mrs. Gertrude, 3G	Sweetwater
Willard, Aubrey L., 1E	Wellington	Wolfe, Ada Louise, 5Ed	San Jose, Calif.
Williams, Aaron, 1E	Floydada	Wolfe, Cecil L., 2B	Spur
Williams, Authalia, 2S	Brownwood	Wolfe, Martha Jean, 1H	LeFors
Williams, Bert, 2B	Lubbock	Wolffarth, Donal E., 2E	Lubbock
Williams, David, 1G	Carlsbad, N. M.	Wolfskill, Marybelle, 1G	Slaton
Williams, Everett, 2G	Roby	Wood, Joseph Thomas Jr., 1E	Levelland
Williams, Floyd E., 1A	Hamilton	Wood, Murray T., 2S	Colorado
Williams, Fred, 3E	Woodsboro	Woodruff, Peggy Jane, 1G	Lubbock
Williams, Helen, 2G	Rochester	Woodruff, Robert S., 2E	Santa Rosa, N. M.
Williams, I. T., 1A	Floydada	Woods, A. G., 1E	Childress
Williams, Jane, 1G	Amarillo	Woodward, Anthony, 1A	Lubbock
Williams, James Dean, 2A	Mt. Pleasant	Woody, Kathleen, 2Ed	Lubbock
Williams, Jessie Fern, 1H	Amherst	Woodyard, Jack, 2E	Bryan
Williams, Lois, 1A	Floydada		
Williams, Mary Lou, 1Ed	Lubbock		
Williams, Nancy Marie, 1G	Lubbock		
Williams, Oran Orville, 4G	Montague		

Wooten, Dudley, 2B	McAdoo	Yost, May Belle, 1H	Munday
Wooten, J. Donald, 1G	McAdoo	Young, A. J., 2E	Burkett
Work, Robt. Jennings, 1B		Young, Clarence, 4A	Ralls
	Wellington	Young, Edith, 1G	Crane
Worley, William, 4E	Waxahachie	Young, Eldon D., 1B	Turkey
Wren, Hodge, 1G	Snyder	Young, Jesse, 4A	Cotulla
Wright, David, 1G	Carlsbad, N. M.	Young, John A., 1A	Lubbock
Wright, Clarence, 1A	Sanger	Young, Julia Frances, 2G	Lubbock
Wright, David, 1G	Carlsbad, N. M.	Young, Leslie, 2S	Lubbock
Wright, J. M., 1A	Dimmitt	Young, Thomas, 4E	Lubbock
Wright, Opal Olene, 2Ed	Lubbock		
Wulfman, John Stephens, 4E	Lubbock		
	Levelland	Zarafonetis, A. George, 4B	Hillsboro
Wyatt, Chas. Ralph, 2G			
		Zerwer, Arthur Lee, 1E	Clovis, N. M.
Yandell, Olen W., 1E	O'Donnell		
Yarbrough, Roma Ruth, 2Ed	Cisco	Zirkle, Wm. Clarence, 4A	Perryton
Yeager, Eugene, 1B	Anton	Zorns, Bruce, 4E	Lubbock
Yeager, Pauline, 2H	Lubbock	Zorns, Leila May, 1G	Lubbock
Yonge, Cora Fox, 1G	Memphis	Zorns, Mrs. Maud, 1G	Abilene
York, Lee Francis, 3B	Snyder	Zorns, Tom, 4G	Lubbock
		Zottarelle, June, 1G	Crosbyton

SUMMER SCHOOL, 1933

Adair, Jack, 5G	Lubbock	Baird, Selma, 5S	Vernon
Adams, Corene Murray, 4G	Lubbock	Baker, Adria, 3G	Lubbock
Adams, Gerald, 1G	Abernathy	Baker, Coleman, 2S	Lorenzo
Adams, Isabel, 1 H	Lubbock	Baker, Elva, 3A	Abilene
Adkins, Freddie, 4H	Lubbock	Baker, John W., 2G	Bellevue
Agee, Mrs. J. C., 1G	Tell	Ball, Earline, 3G	Hobbs, N. M.
Agee, Parri Dee, 2H	Stamford	Ballenger, Felix, 4S	Lubbock
Airhart, Mrs. J. B., 2H	Meadow	Banta, D. A., 3S	Bellaire
Alexander, Alma, 3Ed	Lubbock	Barfield, Mrs. R. P., 2G	Cooledge
Alexander, Jack, 3S	Jayton	Barkham, Billy, 2E	Lubbock
Alexander, Lenore, 1G	Ft. Worth	Barnett, Mary, 4H	McCamey
Alexander, Mary, 3G	Lubbock	Barksdale, L. T., 5S	Chico
Alford, Ruth, 2G	Enochs	Barry, James C., 2E	Slaton
Aldredge, Milville, 1G	Sweetwater	Barnes, Homer E., 2S	Rising Star
Allee, Mitchell, 1B	Crowell	Barton, Ernest F., 3A	Lubbock
Allen, Buford D., 2E	Lubbock	Barton, Raymond, 3G	Lubbock
Allen, Florine, 3S	Goree	Baskin, K., 2B	Lubbock
Allen, Helen, 1Ed	Tahoka	Baskin, Margaret, 5Ed	Lubbock
Allensworth, Hubert, 3G	Lubbock	Bass, Felix, 2E	Lubbock
Allison, Glenn, 4S	Clarendon	Bates, William F., 2E	Pasadena, Calif.
Ammons, Mrs. Alvis, 1Ed	Sweetwater	Baugh, W. Lofton, 4E	Lubbock
Ammons, Johnnie, 1Ed	Roby	Baum, Fannie, 2Ed	Cross Plains
Ammons, Peyton, Alvis, 2S	Roby	Baze, M. L. H., 5Ed	Pampa
Anderson, D. V., 2S	Lufkin	Beard, Girdy Pearl, 4H	Rule
Anderson, Mattie, 2G	Roscoe	Beard, Stella, 3H	Lubbock
Anderson, Velma, 3H	Aspermont	Belt, Ala Rae, 3H	Milano
Andrews, Lucille, 2G	Lubbock	Benefield, Mrs. Pauline, 2H	Spur
Anthony, S. G., 5Ed	Covington	Benefield, S. L., 3G	Spur
Appling, Artelle, 2G	Ft. Worth	Benham, Ford C., 4E	Lubbock
Armstrong, Ursel S., 4S	Panhandle	Bennett, Ann Lou, 4Ed	Arlington
Archer, H. E., 2B	Cisco	Bennett, Mrs. Carmen, 2G	Paducah
Ashby, Letha, 3G	McLean	Bentley, Mrs. C. B., 3G	Vernon
Atcheson, Ben, 2Ed	Lubbock	Beran, Alvina Ruth, 2H	Lubbock
Au, Chung Wo, 2S	Shanghai, China	Beran, Lumir E., 3S	Lubbock
Austin, D. T. Jr., 4E	Mt. Pleasant	Berrier, Christine, 3H	Maypearle
Austin, R. S., 3B	Sour Lake	Berry, Mrs. John, 2Ed	Clyde
Ayers, Manuel, 1A	Shallowater	Bickley, Marie, 1H	Rankin
Ayers, Ross, 4G	Meadow	Biggs, James G., 3G	Snyder
Ayres, Jean, 3G	Floydada		Lovington, N. M.
Bailey, Carl M., 4Ed	Estelline	Bingham, Mabel Z., 1Ed	

Bird, Lois, 2Ed	Matador	Burleson, Mrs. J. M., 2G	Meadow
Black, Sam M. Jr., 2B	Paris	Burnett, Hadley, 1S	Lubbock
Blackburn, B. L., 2S	Breckenridge	Burris, Loyd, 1G	Midland
Blackshare, E. D., 3S	Del Rio	Butler, Lois, 5G	Lubbock
Blackshear, Mrs. Mary	Hall, 1G	Butts, Aubrey O., 2B	Lubbock
	Baileyboro	Butts, Hubert, 4G	Quanah
Blackstock, Nell, 4G	Brownfield	Bynum, Thelma, 1G	Rogers, N. M.
Blackwell, Hollis, 2G	Goldthwaite	Byrd, Ardath, 3G	Colorado
Blackwell, Lola Beth, 2Ed	Vernon		
Blanton, Ella Mae, 4H	Ralls	Cade, Grace, 4G	Chandler
Blanton, Oneita, 4G	Munday	Caldwell, Ann, 2G	Lubbock
Bledsoe, Belva A., 2G	Westbrook	Caldwell, James B., 5Ed	Chicot
Blythe, Mrs. R. T., 4Ed	Sheffield	Caldwell, Linda, 1G	Lubbock
Boles, Mrs. B. L., 3Ed	Lubbock	Cammack, Lora, 2Ed	Matador
Boles, Josephine, 3G	Gordon	Callicoate, Conrad S., 1E	Jayton
Bolton, Jewel, 4S	Crosbyton	Camp, E. C., 5G	Auburn, Ala.
Boren, Pauline, 2G	Crosbyton	Camp, Elizabeth, 5G	Auburn, Ala.
Bostic, G. V., 5G	Lingleville	Campbell, Ellen F., 5G	Plainview
Bostick, Arvella, 1H	Olton	Campbell, Forrest F., 1E	Matador
Box, Grady, 2G	Shamrock	Campbell, James S., 2S	Caddo
Boyd, John Anna, 2G	Lubbock	Cannon, Wm. F. Jr., 5Ed	Jermyn
Boyd, Willie M., 2G	Chriesman	Cannon, Mrs. W. F., 1G	Jacksboro
Bozeman, Bruce, 2E	Lorenzo	Carey, Allene, 1G	Kilgore
Brackett, Vivian, 4G	Corsicana	Carter, Bessie I., 2H	Darrouzett
Bramlett, Ernest Carl, 2A	Tolar	Carter, Ema Jo, 2B	Quinlan
Brandon, Frances, 2G	Post	Carter, George L., 2B	Lubbock
Brandon, M. C., 4A	Alexander	Carter, Georgene Anabel, 2G	
Brannen, Blanche, 2G	Littlefield		Lubbock
Branton, Mrs. Effie, 4Ed		Carter, Lee B., 2A	Darrouzett
	Knox City	Carter, Lorena, 2Ed	Mertzon
Brashear, Jhonnie R., 2G	Idalou	Carter, Mary Ruth, 2G	Lubbock
Bratcher, Guy, 3A	Lubbock	Carter, Ruth, 4H	Lubbock
Bresler, Alma DeShazo, 4H		Caruthers, Pat C., 3S	Kopperl
	Lubbock	Caruthers, Vivian, 3G	Floydada
Brewster, Bryan, 3S	Blanket	Casey, Marie, 2H	Snyder
Brewster, Frances, 1G	Sudan	Cason, Noel, 3G	Cleburne
Brock, Alvin A., 1Ed	Henrietta	Cassel, Lorene, 4Ed	Tahoka
Brock, Edna, 2H	Brownfield	Casterlin, Donald E. G., 2S	Pecos
Brock, Jewell, 5Ed	Seminole	Cates, Papo Paul, 5G	Ackerly
Brock, Mrs. Ora B., 3Ed	Lubbock	Caveness, Edith, 4S	Mineral Wells
Bromley, Mrs. J. J., 2G	Plainview	Chamberlin, John M. Jr., 3G	
Brooks, Armilda, 3H	Levelland		Mineral Wells
Browder, Ruth, 1G	Truscott	Chance, Juanita, 1H	Ralls
Brown, Chas. N., 2E	Floydada	Chandler, Stella, 2G	Chillicothe
Brown, Claude H., 2A	St. Jo.	Chapman, Catherine, 5G	Lubbock
Brown, Fay, 3Ed	Lubbock	Chenoweth, Elizabeth, 4H	
Brown, Lucille, 2Ed			Panhandle
	Shreveport, La.	Cheyne, Edith Richey, 3H	Spur
Brown, Sena Marie, 2S	Petersburg	Chilcoat, Connell, 2G	Truscott
Browning, Bruce, 2G	Whiteflat	Childers, Mrs. Corrie, 2Ed	
Browning, Buford, 5A	Fluvanna		Lexington
Bryant, Fred, 3G	Waco	Childers, Lorene, 3G	Lubbock
Brumley, Homer, 2A	Hereford	Childs, Ruth, 3G	Timpson
Bryant, Noel, 1G	Hereford	Chipley, Jack, 2S	Lubbock
Buckner, Mrs. K. M., 2G		Chism, I. M., 5Ed	Moran
	Brownfield	Clack, Evaughn, 4H	Durant, Okla.
Buckner, Oran, 2S	Brownfield	Clark, Evelyn, 1G	Rosebud
Buie, James M., 4E	Ft. Worth	Clark, Margaret Dale, 3G	
Bullington, F. L., 1G	Goree		San Angelo
Bullington, Leona, 2H	Brownfield	Clayton, Joe, 2A	Gail
Bullington, Roy, 1G	Munday	Clayton, Mardes, 4A	Gail
Bumpass, Faye L., 5G	Lubbock	Clemons, H. P., 5Ed	Goodnight
Bundy, Christine, 2G	Silverton	Cleveland, Raymond B., 5A	Garland
Burckhardt, Bland, 4Ed	Tahoka	Clewell, Geraldine, 4H	Waco
Burgess, Leslie Van, 4Ed	Lubbock	Clinton, Mrs. James, 2Ed	Tahoka
Burke, J. L. Jr., 5Ed	Hobbs, N. M.	Cobb, Charles, 4S	Lubbock

Coffer, Claude Miller, 2Ed	Amherst	Cummings, K. Clyde, 5G	Shallowater
Cole, C. A., 5S	Talpa	Cummins, Leola, 2H	Lakeview
Cole, Frank, 4E	Ropesville	Cunningham, Noah, 2G	McLean
Cole, Vada, 3H	Post	Cunningham, Mrs. Noah, 1G	McLean
Coleman, Winnie Lee, 1G	Childress	Cunningham, Orville, 2S	McLean
Coles, James E., 3A	Colorado	Cunningham, Ruth, 2G	Lamesa
Coles, Mrs. J. E., 1H	Colorado	Cunningham, W. C., 3Ed	Lamesa
Collier, Ila, 2H	Abernathy	Curfman, Leonard, 2G	Electra
Collier, Margie, 3Ed	Stanton	Curry, Melva E., 3S	McGregor
Collum, Blanche, 3Ed	Tatum, N. M.	Curry, T. H., 5Ed	McGregor
Conbest, Ruth, 4H	Oilton		
Conner, Louise, 1G	Floydada		
Cook, Curtis, 2Ed	Wilson		
Cook, Elton D., 2A	Lubbock		
Cook, Maurine, 1Ed	Henrietta		
Cooke, Verlin, 2Ed	Winters		
Cooner, Jerene, 2G	Knox City		
Cooper, Albert H., 1Ed	Amherst		
Cooper, Margaret, 5G	Lubbock		
Copeland, Gladys, 2H	Sterling City		
Copeland, Hazel, 1G	Ropesville		
Copeland, Mrs. H. T., 2Ed	Lubbock		
Copeland, H. T., 5Ed	Bowie		
Copeland, Hubert, 2A	Tulia		
Copeland, John A., 5G	Brownwood		
Copeland, Martha Pearl, 2G	Ropesville		
Copeland, Velma, 4H	Bowie		
Cornett, Florene, 1G	Knox City		
Couch, Imogene, 4H	Gustine		
Couch, J. E., 5A	Pecos		
Couch, Mary C., 1A	Pecos		
Coulter, Mary Fawn, 2Ed	Ballinger		
Covey, Truman, 1B	Wilson		
Cowan, Coleman, 2A	Lubbock		
Cowan, Dorothy, 1G	Lubbock		
Cox, Jean, 1H	Anton		
Crabb, Alice, 3Ed	Dumas		
Craddock, LaGatha, 1G	Post		
Craig, Irene, 3H	Abernathy		
Craig, Minnie Lee, 1Ed	Tatum, N. M.		
Craig, Ruth, 2G	Brookston		
Crawford, Dora Belle, 1H	Big Spring		
Crawford, Ethel, 2Ed	Lubbock		
Crawford, Geneva, 3Ed	Lubbock		
Crawford, Herschel, 2E	Slaton		
Crawford, W. T., 2S	Big Spring		
Creighton, Opal L., 4G	Abilene		
Crews, Rush, 3S	Seminole		
Criswell, Mary Jo, 3H	Plains		
Crooks, Boyd, 1Ed	Morton		
Crooks, Mrs. Boyd, 2Ed	Morton		
Crosland, Maude, 2Ed	Gordon		
Croslin, Wm. Lloyd, 5G	Lubbock		
Cross, Virgil A., 3G	Megargel		
Crouch, Mayme, 2G	Munday		
Crump, Mamie, 5G	Shallowater		
Cudd, Helen, 1G	Spur		
Crutchfield, Carl, 4Ed	Lovington, N. M.		
Cullin, Florence, 3G	Wichita Falls		
Culwell, Sherman H., 2S	Poolville		
Cummings, Elma T., 3G	Snyder		
		Daniel, Grace F., 3G	Smyer
		Darr, Aud, 4B	Melrose, N. M.
		Darwin, Rachel, 1B	Lubbock
		Davidson, R. L., 5Ed	Grady, N. M.
		Davidson, Mrs. R. L., 4Ed	Grady, N. M.
		Davis, Josephine, 2G	Southland
		Davis, A. C., 3S	Levelland
		Davis, Ada, 2Ed	Jayton
		Davis, Chapman, 3S	Lubbock
		Davis, Emily, 2H	Lubbock
		Davis, Herbert, 2A	Silverton
		Davis, Jewell, 3Ed	Lubbock
		Davis, Mary Anne, 1H	Lubbock
		Dawkins, E. F., 3A	Lubbock
		Day, Lela, 3G	Dallas
		Dean, Bernice L., 5G	Lubbock
		Dean, Jeff, 2S	Lamesa
		Dean, Jewell, 1Ed	Hamlin
		Dean, LaRue, 3Ed	Gorman
		Dean, Ruby, 3Ed	Hamlin
		Dedmon, Pearl, 1G	Sagerton
		Deering, Gordon, 3Ed	Mason
		DeFee, T. J. Jr., 3G	Ralls
		Denton, Bessie, 1G	Littlefield
		Derrick, Adelia, 1Ed	Ralls
		Devenport, W. Silas, 4Ed	Snyder
		Devenport, Mrs. Silas, 1Ed	Snyder
		Ditmore, Nora, 1Ed	Water Valley
		Dixon, Nancy Carolyn, 4H	Bellevue
		Dobbins, Dorothy, 3Ed	Marlin
		Dobkins, Glenn, 4S	Roaring Spring
		Dobkins, Joyce, 3B	Roaring Spring
		Donnell, Sidney, 3A	Lubbock
		Dorsett, Lucile, 2Ed	Plainview
		Doss, Beth, 2G	Seminole
		Douglas, Ralph, 4E	Lubbock
		Douglas, Mary Louise, 1B	Lubbock
		Douglas, Mrs. R. C., 4G	Lubbock
		Douglass, Frances, 3S	Big Spring
		Douthit, Gladys, 2S	Tahoka
		Douthit, Lowell, 3G	Tahoka
		Dowdle, Randolph, 1G	Cooledge
		Dowell, G. S., 5Ed	Dickens
		Downs, Jack, 4A	Balmorhea
		Drinkard, H. Victor, 3Ed	Snyder
		Dryden, Elizabeth, 3S	Best
		Duff, Berry, 1G	Big Spring
		Duke, Herma, 1G	Lamesa
		Dulaney, Elnora, 1Ed	Tahoka
		Dulaney, Frances, 2Ed	Tahoka
		Duncan, Gaye, 2H	Shallowater
		Duncan, Homer, 4S	Lubbock

Duncan, Mary, 2G	Littlefield	Foster, G. W. Jr., 2B	Lubbock
Dunlap, E. Ray, 1A	Spur	Foster, Mrs. Velma, 4Ed	Lubbock
Dunlap, Lewis, 1A	Spur	Foster, Mrs. Sara, 4Ed	Lubbock
Dunlop, Margaret Ruth, 4G	Lubbock	Foster, Vincent, 3S	Amarillo
Dunlap, Mildred, 2Ed	Spur	Fox, Gladys, 2Ed	Lorenzo
Dunn, Genia, 1Ed	Crosbyton	Franklin, Reba May, 2Ed	Colorado
Dunn, Harvey, 3S	Lubbock	Franks, Cora Lee, 4G	Gatesville
Easterling, Margie, 3S	Graham	Frazier, W. H., 5A	Farmersville
Eaton, Fannie Brown, 2H	Albany	Freeman, Odine, 1G	Tahoka
Eaton, Frank, 2S	Lubbock	Fryar, Lorene, 3G	Matador
Eaton, Merle, 2Ed	Rule	Fryar, J. Harvey, 4B	Midland
Eaves, Mrs. C. D., 3S	Lubbock	Fudge, James, 2E	Dallas
Edwards, Ethy Lou, 3H	Lubbock	Fuller, Flora, 5Ed	Brownwood
Edwards, Louise, 2G	O'Donnell	Fulton, Mary, 2G	Lubbock
Edwards, Lucile, 3B	Southland	Fulton, Sarah, 1G	Lubbock
Elder, Henry, 3A	Cuero	Fuqua, Duane, 1S	Amarillo
Elder, Joe, 2A	Cuero	Furgeson, Clara Belle, 1G	Lubbock
Elkins, C. H., 5S	Lubbock	Furgeson, W. R., 2G	Lubbock
Elliott, Alvin, 1B	Levelland	Gammill, Rankin, 3Ed	Lubbock
Elliott, Fred, 2A	Lubbock	Gann, Gertrude, 2Ed	Anton
Elliott, Nora Ellen, 4H	Dumas	Gannaway, Garland, 1A	Hermleigh
Elliott, Roy, 3G	Trent	Garlington, Evelynne, 3G	Littlefield
Ellis, Alvis, 4S	Anton	Garrett, Hattie Ruth, 5Ed	Mertens
Ellis, Edith, 1G	Slaton	Garrison, Mrs. Isabel, 2Ed	Lubbock
Ellis, Magnolia, 2H	Spur	Garrison, Mrs. Lizzie Lou, 2G	Spur
Ellis, Otis Parker, 3S	Brownfield	Gaspar, Laura, 1G	Chriesman
Ellis, Zell, 3Ed	Spur	Gaylor, Lee, 3G	Wagoner, Okla.
Ely, E. J. Jr., 3G	Hermleigh	Gentry, Lillie, 3H	Albany
Ely, Mrs. E. J. Jr., 2G	Hermleigh	Gibbs, Chestine, 1G	Sweetwater
Engleman, Mrs. Clota, 2G	Spur	Gibbs, L. Clifford, 2G	Ropesville
Evans, Anna Cecil, 5G	Lubbock	Gibbs, Myrtle, 3G	Lubbock
Evans, Bernard, 2B	Ropesville	Gibson, Roberta, 1G	Cone
Evans, Charles, 1S	Mangum	Gilkerson, Johnnye, 5G	Lubbock
Evans, Gertrude, 2G	Meadow	Gilley, Frances, 1G	Southland
Everett, Mary Louise, 1H	Blackwell	Gilmore, Braxton, 2Ed	Olney
Evers, Frances, 2Ed	Brady	Gilmore, Wilson, 2S	Olney
Fain, Mrs. W. F., 2Ed	Springtown	Glazner, Chas. E., 1E	Wilson
Fain, W. F., 3Ed	Springtown	Glazner, Elbert Dean, 1E	Wilson
Fairchild, Everett D., 4G	Plainview	Glazner, Giles L., 2E	Lubbock
Fairly, Fred, 3E	Lubbock	Glazner, Margaret, 2Ed	Anson
Fallon, Mark H., 3S	Goldthwaite	Glidewell, Beatrice, 2G	Truscott
Farris, Inez, 2H	Tahoka	Gooch, R. Henry, 4A	Ft. Worth
Faver, Nancy, 2G	Sweetwater	Gordon, Frances Ellen, 1G	Itasca
Feazell, Mary Ann, 3G	Lorenzo	Gordon, Lynn Gray, 4S	Lubbock
Fincher, Gladys, 3H	Chillicothe	Gordon, Mary Evelyn, 4Ed	Albany
Finley, George P. Jr., 1S	Aspermont	Graves, Rhenn Richey, 2H	Dickens
Finley, Leta Faye, 1Ed	Meadow	Gray, John C., 2S	Lubbock
Finley, Lorena, 1G	Portales, N. M.	Gray, Queen, 5G	Lubbock
Fisher, Elizabeth Underwood, 4H	Shallowater	Gray, Willard, 4E	Tyler
Fletcher, Irene, 2G	Lubbock	Greathouse, W. D., 1E	Blackwell
Floore, Mary Alice, 4Ed	Ft. Worth	Green, Edneth, 4H	Tokio
Flores, Vetal, 1G	Lorenzo	Green, K. P., 4E	Graford
Fly, Elizabeth M., 5H	Amarillo	Green, Lola Beth, 3Ed	Dickens
Followill, Erma, 3Ed	Lipan	Greenwood, Billie W., 5G	Comanche
Forbis, Stafford, 1B	Spur	Greer, Ada Gaynelle, 2G	Lubbock
Ford, Alline, 2Ed	Post	Greenwood, Max H., 5G	Big Spring
Ford, John K. Jr., 1B	Bogota	Greer, Albert, 3A	Comanche
Forehand, Artie B., 1A	Levelland	Greer, Georgia Belle, 2G	Wilson
Forrest, R. B., 2G	Ireland	Greer, Milton, 4G	Wilson
Forté, Hazel Gene, 2H	Silverton	Greer, Wm. Arthur, 3Ed	Bellevue
Foster, Altha, 1B	Lubbock	Gregory, Florence, 2H	Lubbock
Foster, Georgia Mae, 2Ed	Lubbock	Gregory, Wm. W., 4A	Lubbock

Gressett, Winnie Faye, 2G	Westbrook	Hays, Mrs. Addie Jane, 2H	Whitharral
Griffis, Olive, 3Ed	Valera	Hays, B. M., 5A	Whitharral
Griffis, Ruth, 2G	Plainview	Hays, S. D., 1E	Snyder
Grimes, C. A., 5A	Grenville, N. M.	Hazlewood, Wilma, 1Ed	Stanton
Grinnell, Alice, 1S	Boise City, Okla.	Headstream, Mae Bell, 2Ed	Roby
Grounds, Althea Lee, 2G		Headstream, Ray, 3B	Roby
	Blue Ridge	Heard, Angie, 1Ed	Goree
Groves, Fred A., 5A	Meadow	Heard, Mary Isabel, 2G	Goree
Grundy, Jack A., 3A	Quitaque	Heath, Geo. A., 5Ed	Friona
Guess, Ruth, 4G	Idalou	Heath, Mrs. Geo. A., 5G	Friona
Guthrie, Harry L., 3E	Mesa, Ariz.	Heatly, Evelyn Gail, 3G	Lubbock
Gwathmey, Loyce, 3Ed	Brownwood	Heatly, Mrs. W. E., 4G	Littlefield
		Heddins, T. L., 1B	Lubbock
Hackney, B. G., 2S	Pickton	Hefner, La Nelle, 1S	Spur
Hackney, Glenn T., 4A	Pickton	Heidel, F. L., 2S	Lubbock
Hale, C. L., 4Ed	Lubbock	Heierman, Catherine E., 5G	
Hale, Ida Mae, 2H	Jacksboro		Imperial
Hale, Leon, 3S	Lubbock	Hellums, Wynelle, 1Ed	Goree
Hall, A. G., 2G	Slaton	Helson, Mrs. Roy, 1S	Byars
Hall, Ewell, 3G	Memphis	Henderson, Maurine, 4Ed	Lubbock
Hall, Lois Elizabeth, 4B	Quitaque	Henderson, Mrs. L. A., 1Ed	
Hall, Maynard, 1B	Lubbock		Tahoka
Hall, Pauline, 1Ed	Shallowater	Hendrick, Ernestine, 1G	Rogers
Hall, Wm. M., 1S	Roswell, N. M.	Hendrick, Sulta, 3G	Rogers
Halsey, Marcus, 1S	Lubbock	Henry, Andrew, 2E	Sanderson
Hamil, Mrs. Christine N., 1G		Henry, Elaine, 2H	Lubbock
	Hermleigh	Henry, Gladys, 1Ed	Ralls
Hamilton, Doyle, 4H	Huckabay	Henry, Grafton, 1S	Slaton
Hammons, Anne, 5S	Gordon	Henry, Vern J., 2B	Knox City
Hancock, Addie, 2Ed	Jayton	Henson, Douglas, 4S	Lubbock
Hancock, Beulah, 2Ed	Tahoka	Henson, Mrs. Elois Sneed, 2Ed	
Hancock, J. E., 4E	Lubbock		Dalhart
Hancock, Cleo, 3G	Dublin	Herrell, Lynn, 2G	Sudan
Hancock, George, 1Ed	Tahoka	Herring, Mrs. Beulah A., 3G	
Hancock, Louise, 2Ed	Tahoka		Shallowater
Hanna, Ray, 5S	Quanah	Herring, Mildred, 2G	Aspermont
Harber, T. W., 5S	Munday	Hicks, Hortense, 4B	Roswell, N. M.
Hardy, Lillian Ella, 2Ed	Spur	Hicks, John H., 1S	Pittsburg
Harkins, Clarice, 2G	Hermleigh	Hicks, T. B., 3A	Snyder
Harper, Carl, 4G	Lubbock	Hill, Alta Mae, 5Ed	Blue Ridge
Harper, Enos W., 4Ed	Wellington	Hill, Ruby, 3Ed	Lubbock
Harper, Mrs. Enos, 3H	Wellington	Hinds, Van, 2B	Lubbock
Harred, Hallie, 2G	Tokio	Hitchcock, Matt, 4A	Lexington
Harred, Edith, 2Ed	Tokio	Hix, Argen, 2H	Wellington
Harred, Hazel, 2G	Tokio	Hix, Margaret, 2G	Wellington
Harris, C. S., 3Ed	Ovalo	Holcomb, C. A. Jr., 1G	Lubbock
Harris, Mrs. C. S., 2G	Ovalo	Holden, Allene, 2G	Lubbock
Harris, James R., 2E	Asherton	Holden, Joyce Ellis, 2H	Lubbock
Harris, Ealy, 2B	Ralls	Holden, Tom C., 5G	Tuscola
Harris, Lucille, 3Ed	Munday	Holeman, Alfred, 4G	Lubbock
Hart, Marshall, 2Ed		Holley, V. C., 3G	Aspermont
	Richland Springs	Holly, Mrs. Evalene, 2H	Spur
Hart, Mary Frances, 3H	Aquilla	Holly, Odis Ben, 4A	Post
Harter, Astena, 1G	Tahoka	Holt, Woodrow, 1G	Lubbock
Hartrick, Wade J., 5B		Honea, Mrs. Bernice, 1Ed	Anson
	Clovis, N. M.	Hooper, Floy, 3Ed	Dallas
Hartrick, Mrs. Wade J., 2H		Hooten, R. L., 5Ed	Shallowater
	Lubbock	Hopper, John, 5S	Lubbock
Harville, Grace, 2Ed	O'Donnell	Hopper, Mary Lou, 2G	Lubbock
Hastings, Emma May, 3H	Lubbock	Hopping, Lillian, 5G	Lubbock
Hastings, John J., 1S	Lubbock	Hopping, Velma Jane, 1G	Lubbock
Hastings, M. M., 3Ed	Roscoe	Horstmann, Lina, 3Ed	Buckholts
Haught, O. B., 1G	Shallowater	Horstmann, Hugo, 3Ed	Buckholts
Hayden, Ruby Ethel, 3H	Pickton	Horton, Minnie, 1G	Hale Center
Hayes, Charlsie, 2G	Spur	Howell, A. A., 2G	Paducah
Haynes, Hope E., 2S	Haskell	Howell, Elvin, 1G	Snyder

Howell, Hobson, 3S	Paducah	Jones, Mart Woodson, 5G	Seagraves
Howell, J. Byron, 3S	Post	Jones, Mary W., 2H	Silverton
Hubbert, G. O., 3G	Lubbock	Jones, Mattye Pearl, 1Ed	Tahoka
Hudman, Evelyn, 2G	Lubbock	Jones, R. L., 2B	Paint Rock
Hudman, Kathryn, 1S	Lubbock	Jones, Thelma, 3Ed	Stephenville
Huelster, Lenora, 2B	Balmorhea	Jones, Wesley W., 2S	Lockney
Huffaker, Calloway, 2S	Wilson	Joyce, Faye, 1Ed	Snyder
Huffaker, Chloe, 3H	Wilson	Keaster, Vivian, 4Ed	Lubbock
Hurstledler, Virginia, 5G	Lubbock	Keen, Gladys L., 5H	Sierra Blanca
Hughett, Maurice, 1E	Lubbock	Keller, Glenna, 4Ed	Lubbock
Hugnett, Pauline, 5G	Lubbock	Kelly, J. Dyché, 2E	Lubbock
Hukel, Cecil, 3S	Abernathy	Kennedy, J. L., 3S	Commerce
Hull, Doris, 3B	Lubbock	Kerr, Mrs. James C., 4Ed	Lubbock
Hulse, Dewey S., 2Ed	Littlefield	Kersey, Cecil, 4B	Amarillo
Hulsey, Ethel, 4Ed	Dickens	Key, Cecil, 2E	Lamesa
Hulsey, Lois, 1G	Dickens	Key, Norvell, 2S	Wilson
Humphries, Daisimay, 4Ed	Lubbock	Killingworth, Mrs. Roy, 2Ed	Paducah
Hunter, Frances, 2B	Claude	Kimbrough, Rex, 1S	Ralls
Hunter, Glenn, 3A	Gilmer	King, Audy L., 3S	Lubbock
Hurd, Lula, 2H	Vera	King, Don, 2A	Brownfield
Hurmenice, Howard, 3E	Lubbock	King, Newell, 2S	Vernon
Hurmenice, Ruth, 2G	Lubbock	King, W. A., 5A	Floydada
Hutchinson, Joe C., 3Ed	Muleshoe	Kirkpatrick, Lois, 2G	Littlefield
Hutchinson, Mrs. Mary M., 2Ed	Muleshoe	Knapp, Roger Sedman, 4S	Lubbock
Hutchinson, Ruth, 3G	Lubbock	Knudson, Elmo M., 1E	Clifton
Hutchinson, Tom, 2S	Lubbock	Knight, Georgie, 4G	Lubbock
Hutto, Emil, 3G	Skellytown	Kral, Anna, 3G	Roby
Hyatt, Mary Elizabeth, 2G	Wichita Falls	Koons, Frances, 2Ed	Joshua
Igo, Ina, 2H	Ralls	Kral, Thomas Jr., 4E	Roby
Inman, Maggie Lee, 5S	Hereford	Krueger, Mrs. J. T., 2G	Lubbock
Jackman, Mary Lou, 1G	Lubbock	Kuhn, Willet, 4E	Weatherford
Jackson, Alfred, 2G	Lubbock	Ladd, W. D., 2S	Mineral Wells
Jackson, C. T., 1G	Lubbock	Lamance, B. R. Jr., 3Ed	Ranger
Jackson, Mrs. Floyd, 2Ed	Hurlwood	LaMaster, Cy, 3S	Perryton
Jackson, Harvey, 4S	Roaring Spring	Lamkin, W. W., 2S	Garner
Jackson, Lonora, 2G	Morton	Lancaster, Eloise, 3H	Teague
Jackson, Stella B., 5G	Lubbock	Land, Elizabeth, 1G	Lamesa
James, Bessie, 2B	Post	Landrum, Cyrus, 1S	Fluvanna
Jameson, Roy L., 4S	Floydada	Landrum, Emma Leata, 2G	Fluvanna
Jameson, Mrs. Ruby, 2B	Clovis, N. M.	Landrum, Jeta G., 2S	Fluvanna
Jay, Gwendolen B., 2G	Turkey	Lang, Joe W., 4S	Kress
Jay, Ike W., 5S	Turkey	Langford, George, 5S	Frankell
Jay, R. Marion, 4Ed	Lubbock	Lanning, Eunice, 3G	Lubbock
Jeffress, Tennyne Maye, 1G	Snyder	Larmer, Mrs. Madeline, 2Ed	Lubbock
Jennings, Mrs. Dollie, 3Ed	Sonora	Latimer, Doris, 2G	Levelland
Jennings, Evelyn, 5G	Lubbock	Lauderdale, James, 3S	St. Jo
Jennings, Grady, 2B	Mineral Wells	Lawlis, Frances, 2G	Abilene
Jennings, Jean Shelly, 4G	Lubbock	Lawlis, Paul F., 5Ed	Brownfield
Jennings, Kathleen, 4G	Plainview	Lawrence, Ben, 4Ed	Silverton
Jinkins, A. B., 5S	Sudan	Lawrence, Mrs. Lottie, 3Ed	Quanah
Johnson, Garvice, 3G	Jewett	Lawson, Layton, 2A	Lubbock
Johnson, Jesse M., 3S	Burkburnett	Leach, Henry R., 2A	Ballinger
Johnson, Minibel, 2S	Lubbock	Leaverton, Rosemary, 1G	Lubbock
Johnson, Mrs. Nancy S., 5G	Lubbock	Ledbetter, Talbot, 2E	Brady
Johnston, J. B., 2A	Lubbock	Lee, Ebbie, 4B	Lamesa
Johnston, Louis, 3A	Crosbyton	Legg, Peyton, 2A	Dickens
Jones, Charlotte, 2Ed	Paint Rock	Lieske, Bertha E., 2Ed	Crosbyton
Jones, Connie, 1S	Stanton	Lieske, Helen, 1Ed	Crosbyton
Jones, Mrs. J. V., 2H	Lubbock	Light, Ruth E., 1H	Lubbock
		Link, Beatrice, 1Ed	Tuxedo
		Link, Geraldine, 2G	Tuxedo

Linn, Dollimae, 3H	Lubbock	McReynolds, Ollie B., 3G	Dallas
Lipscomb, Evelyn Helms, 2G	Lubbock	McWhirter, George E., 5G	Plainview
Lisemby, Fern Gladys, 2G	Lubbock	McWhorter, Garland G., 2A	Lubbock
Liston, Lovie H., 4Ed	Lubbock	McWilliams, Bennie, 2S	San Benito
Little, Eunice O., 3Ed	Abilene	McWilliams, J. R., 2E	Whiteflat
Lock, J. H., 3S	Jacksonville	Macon, Opal, 2Ed	Ralls
Locker, Eunice, 3Ed	Richland Springs	Maddox, Don, 4E	Lubbock
Lofland, Nan Allene, 2G	Rockwall	Maddox, F. M., 2G	Lubbock
Logan, Martha B., 4S	Lubbock	Magee, Ruth, 2S	Lubbock
Lokey, Theresa, 2B	Lubbock	Maggard, Mable, 4H	Hale Center
Lomax, Dorothy, 5G	Lubbock	Maggart, Eva Helen, 3Ed	Stanton
Lomax, Gertrude, 4H	Meridian	Maggart, J. W., 3S	Stanton
Long, Ruth, 5S	Roscoe	Malcolm, Golda, 2H	Brownfield
Longbotham, Mrs. L. H., 1Ed	Levelland	Maloney, Margaret, 1S	Goree
Looney, Catherine, 2Ed	Paducah	Manire, B. L., 4E	Slaton
Looney, Helen, 4G	Paducah	Manley, Thayer, 3E	Carnesville, Ga.
Loughmiller, Max, 1S	Canton	Marcom, Gordon, 2Ed	Levelland
Loughmiller, W. W., 2S	Canton	Marcom, O. W., 3S	Ropesville
Loughridge, Catherine, 3H	Louisville, Ky.	Marcom, P. J., 4Ed	Levelland
Loughridge, James A., 4E	Waco	Marr, Bedford G., 2E	Shallowater
Lowe, Evelyn, 1H	Brownfield	Marshall, Christine, 1G	Gallup, N. M.
Lowery, E. J., 5S	Lubbock	Martin, Almon, 1S	Lubbock
Luper, Carlton E., 1E	Houston	Martin, Charles, 3G	Bunger
Lupton, Katherine, 4S	Shallowater	Martin, Cleone, 2Ed	Lubbock
Lynn, Artie J., 5S	Oklahoma	Martin, Mrs. G. D., 5S	Roswell, N. M.
Lynn, Mrs. Doris S., 2G	Oklahoma	Martin, Guy, 5S	Lorenzo
McAllister, Winifred, 2G	Tuxedo	Martin, Golda Faye, 2G	Bunger
McArthur, Floyd, 2S	Spur	Martin, Harvey A., 1B	Petersburg
McArthur, Herman, 2A	Spur	Martin, J. Harrison, 1S	Lubbock
McArthur, Maurine, 1G	Spur	Martin, Leland L., 3S	Forsan
McArthur, Wilma, 4S	Spur	Martin, Mrs. L. L., 3G	Forsan
McAuley, Florence, 2Ed	Millsap	Martin, Malcolm, 2G	Lorenzo
McCain, Robert L., 1S	Paducah	Martin, Mrs. O. O., 1G	Seymour
McCarroll, Loraine, 2Ed	San Angelo	Martin, Thomas C., 2G	Lamesa
McCarty, Chester, 1B	Lubbock	Martin, Vada L., 2Ed	Lubbock
McClain, Carl, 4S	Lubbock	Martin, Wilma M., 2Ed	Lubbock
McClanahan, Gladys, 3Ed	Weatherford, Okla.	Massay, Winifred, 3B	McLean
McCleskey, Madie L., 5G	Lipan	Mast, John, 4S	Lubbock
McCollum, Curtis, 2E	Lubbock	Masten, Reese, 3S	Plainview
McConal, Griff, 3A	O'Donnell	Mathis, Mrs. H. B., 2H	Muleshoe
McCorry, J. L., 4S	Amherst	Mathis, Kary, 5Ed	Lubbock
McCorry, Mrs. Mary R., 3S	Lovington, N. M.	Mathis, Mrs. Kary, 5Ed	Lubbock
McDaniel, Foy, 2E	Rockwall	Mathis, Mrs. W. M., 2S	Tahoka
McDaniel, Nell, 1G	Crosbyton	May, Lucille, 1G	Eastland
McDearmon, R., 5S	Lubbock	May, Zona Elizabeth, 5G	Lubbock
McDonnell, L. C., 5S	Borger	Mayfield, Fawn, 2Ed	Aspermont
McFall, Melvin B., 2G	Carbon	Mayfield, Harold, 1E	Temple
McGrady, John B., 3E	Cisco	Mealer, Beatrice, 2Ed	Ralls
McGregor, Enda Earl, 4H	Knott	Metcalfe, Pearl R., 1Ed	Lubbock
McGuire, Eula Mae, 2H	Gilliland	Metcalfe, Mrs. W. L., 5G	Lubbock
McIlhaney, Jess, 3G	Lubbock	Meyers, O'Quin, 4E	Lamesa
McIntosh, W. A., 5Ed	Amarillo	Miller, Haskell, 4S	Richland Springs
McKay, LaVerne, 1S	Lamesa	Miller, Powell, 1B	Lubbock
McKay, Opal, 3G	Lamesa	Mills, Mabel, 1Ed	Lubbock
McKelvy, Mrs. Ruby, 1S	Sudan	Mills, Mildred, 1S	Mullin
McLaughlin, Mrs. Ruth F., 2G	Lamesa	Milstead, Lola, 2Ed	Hamlin
McMahon, Bonnie, 1Ed	Post	Milstead, Oleta, 1G	Lubbock
McNeese, Craig, 4E	San Antonio	Milstead, Viva, 1G	Hamlin
McPherson, Frank, 1E	Lubbock	Minter, M. P. J., 4E	Sulphur Springs
		Mitchell, Billie, 2A	Snyder
		Mitchell, C. E., 2S	Slaton

Mitchell, Eric L., 2G	Chaney, Okla.	Pace, Mrs. Alma, 3B	Memphis
Mitchell, Raymond E., 1B	Lubbock	Pace, Johnnie, 2G	Littlefield
Molloy, Marvin, 5G	Hollis, Okla.	Pace, Joye, 1Ed	Littlefield
Montgomery, Mary Belle, 3S	Littlefield	Paige, Russell E., 5Ed	McLean
Montgomery, Opal, 4G	Lubbock	Paige, Mrs. R. E., 2G	McLean
Moore, Alma, 1S	Shallowater	Palmore, John, 4S	Ravenna
Moore, Bessie Mae, 3G	Littlefield	Pardue, Winona, 4G	Lubbock
Moore, Ernest H., 2Ed	Perrin	Parker, Bob, 5S	Lucille, N. M.
Moore, Margaret M., 1G	Ropesville	Parker, Thalia, 5H	Sudan
Moore, Ray C., 4G	Hamilton	Parks, Bernice Avant, 3S	Ingram
Morgan, Bernice, 2S	Spur	Parks, Janet, 1S	Hope, N. M.
Morgan, Mattie, 3Ed	Whitney	Parmer, Opal, 2Ed	Miles
Morgan, Mildred, 2Ed	Scranton	Parrack, Alma, 4Ed	Lubbock
Morgan, Ruth, 2S	Norton	Parrish, Ruby, 2Ed	Lubbock
Morley, Pauline, 2Ed	Ballinger	Parsons, Ollie, 3G	Jolly
Morris, Mrs. Mary V., 1Ed	Lamesa	Patterson, Mrs. Blanche E., 2Ed	Hermleigh
Morrison, Lois Louise, 2Ed	Lubbock	Patterson, Cecile, 1G	Enochs
Morrison, Mildred, 1S	Sulphur Springs	Patterson, Johnnie Mae, 4G	Plains
Moxley, J. Mason, 2S	Lubbock	Patton, Maurice, 2Ed	Jayton
Mullings, Fred R., 3Ed	Lockney	Paulsel, Lois E., 1G	Alice
Mullins, Nettie, 2G	Brownfield	Payne, Avary, 1S	Slaton
Muns, Lorene, 3S	Clarksville	Payne, Beatrice, 1S	Slaton
Murphey, Jewell, 1S	Lubbock	Payne, Leland D., 4S	Eddy
Murray, Mrs. G. C., 1Ed	Iraan	Pearce, Paul H., 2E	Whitesboro
Myrick, Roberta, 3G	Lubbock	Pereau, Harper, 3B	Lubbock
Nance, Bonnie R., 1G	Justiceburg	Periman, Vera, 3H	Snyder
Nash, R. M., 4B	Slaton	Perry, Edgar, 1A	Lubbock
Neal, Mrs. Mamie I., 2G	Lubbock	Peters, O. W., 5S	Rock Springs
Neal, T. E., 1S	Abilene	Peterson, Vaughn, 2B	Lubbock
Neaves, Imogene, 2G	Spur	Peveto, Audrey, 4S	Lubbock
Nelson, Eloise, 2Ed	Sterling City	Pfaffo, Martha, 5G	Gainesville
Newman, Homer, 1S	Meadow	Phillips, Raymond, 3S	Thalia
Newman, Louella, 2Ed	Meadow	Pierce, E. E., 1Ed	Levelland
Newsome, Mrs. Garland, 3H	Lubbock	Piercy, Helen, 2S	Lubbock
Newton, Gladys, 2H	Brownfield	Pittman, Violet, 1Ed	Floydada
Newton, Glen, 2E	Idalou	Plain, Billie, 3G	Lubbock
Newton, Inez, 3Ed	Goree	Plemons, Bill, 1G	Wellington
Newton, John, 2E	Idalou	Plemons, Mrs. Virginia, 1B	Wellington
Nipper, Joe G., 4S	Hedley	Polk, Jonnie, 2Ed	Lubbock
Nixon, George, 1S	Harrold	Pool, Juanita, 4S	Lubbock
Noles, Gussie, 2G	Rotan	Pool, Lee R., 4Ed	Lubbock
Norris, Henry, 3S	Texico	Pool, Phyllis, 3G	Lubbock
Norris, Pauline, 2Ed	Lubbock	Poole, Arlene, 1Ed	Turkey
Nowlin, R. H., 3Ed	Lubbock	Poole, Homer A., 4S	Turkey
Nystel, G. A., 2E	Abernathy	Popejoy, Ruby Jo, 1G	Lubbock
Nystel, Merrill E., 1H	Abernathy	Popenoe, Freda M., 2G	Lubbock
Odum, Katherine, 2Ed	Crosbyton	Porter, Charles, 1Ed	Slaton
Ogden, Mrs. Flora Mae, 1Ed	Andrews	Porter, Galen, 2G	Seymour
Ohlenbusch, Hilda, 2S	Loraine	Porter, Gladys, 2Ed	Lubbock
Ohlenbusch, Lena, 2Ed	Loraine	Potts, Goldie, 2Ed	Lubbock
O'Kelly, Frances, 3H	Abilene	Potts, Mrs. J. Frank, 3H	Abilene
Olsen, Dorothy, 4G	Seymour	Pounds, Davis, 5A	Brownfield
O'Neill, Nance, 5G	Lubbock	Pounds, Mrs. Davis, 3Ed	Brownfield
O'Neill, Charles F., 3S	Lubbock	Powell, Dicy, 2H	Santa Anna
O'Neill, T. Roderick, 3S	Lubbock	Powell, Mrs. Naomi Lee, 1Ed	Robert Lee
Orr, Catherine, 1B	Hillsboro	Powell, St. Elmo, 3S	Memphis
Orsborn, Grace, 4S	Knox City	Power, Sylvester, 2Ed	Lubbock
Oswalt, Imogene, 2Ed	Lubbock	Powers, Hubert, 4S	Colorado
Overstreet, Corinne, 2H	Lubbock	Powers, Joe Bailey, 3S	Lubbock
Owens, Ross, 5Ed	Lubbock	Powers, Mrs. Vivian Glover, 4Ed	Colorado
Owens, Mrs. Ross, 4S	Rockwood	Powers, Warren, 5S	Lubbock

Preston, Howard G., 3A	Sudan	Rowe, E. S. Jr., 1E	Littlefield
Prestwich, A. T., 3S	Lubbock	Rowland, Virgil, 4S	Anton
Price, Hazel, 4H	Lubbock	Royalty, Catherine, 2G	Lubbock
Price, Juanita, 4Ed	Lubbock	Russ, Mrs. Kate, 4Ed	Sunset
Price, Marie, 5G	Lubbock	Russ, R. G. Jr., 5S	Lubbock
Prim, Margaret Dell, 4G	Snyder	Rutledge, David, 2G	Ft. Worth
Proctor, Leora, 1H	Brownfield	Rutledge, Ruth, 2G	Floydada
Prosser, Mrs. Irma, 5S	Lubbock	Rylander, Ruth Mildred, 4G	Lubbock
Ramsey, Frances, 3S	Wichita Falls	Sale, Woodford, 3S	Stanton
Rankin, C. G., 5S	Crosbyton	Samson, Gertrude, 2H	Post
Rankin, Louise, 4Ed	Abernathy	Sanders, Gladys, 4H	Sweetwater
Rankin, Mrs. Madie, 3Ed	Lubbock	Sanders, J. Oran, 4E	Big Spring
Ranson, Floy, 2Ed	Sanco	Scarborough, B. W., 3S	Lubbock
Ranson, Mrs. Geneva, 1Ed	Lamesa	Schooler, Rebekah, 2H	O'Donnell
Ranson, Leon, C., 5G	Lamesa	Scott, Edward L., 3S	Georgetown
Ranson, Ralph, 1S	Sanco	Scott, Elmore B., 2S	Smyer
Rash, Lloyd, 1Ed	Peacock	Scott, Howard W., 2S	Lubbock
Rash, Mrs. Opal L., 2Ed	Peacock	Scott, Mabel Clare, 2H	Childress
Rayburn, Clara Mae, 2S	Roscoe	Scott, Marjorie, 2B	Lubbock
Rector, Ernestine, 1G	Hermleigh	Scott, Mrs. Mary Old, 3Ed	Smyer
Redford, Terry C., 4Ed	Brownfield	Scott, Mrs. M. J., 3H	Lubbock
Redman, Edward, 2E	Marshall	Scott, Nina, 2Ed	Lamesa
Redwine, Jewell, 2H	Tahoka	Scott, Wilma Irene, 2G	Hollis, Okla.
Reed, Glenn, 1A	Corsicana	Scudder, Doris, 2H	Graford
Reed, James Howard, 2E	Lubbock	Scudder, Henry, 1S	Dallas
Reed, Myrtle, 3S	Ft. Worth	Seale, Lela, 3Ed	Lorenzo
Reeves, Helen R., 5G	Lubbock	Sears, Enid, 2G	Snyder
Reeves, Lloyd S., 4E	Dallas	Self, Adelaide, 1G	Quitauque
Reid, Delene, 4H	Clyde	Senter, Mary Frances, 4G	Teague
Renfro, Marvin C., 5Ed	Kirven	Senterfitt, Fannie Belle, 1S	San Saba
Renken, John G., 2B	Dallas	Settle, Helen, 2H	Baird
Rex, Bessie, 2S	O'Brien	Settle, Mrs. Rosa A., 2G	Lubbock
Reynolds, Mrs. Mayme B., 2G	Dickens	Shaffer, Clifford, 3Ed	Sudan
Rhoades, Mrs. Lida, 2S	Snyder	Shaffer, Weldon Eugene, 1S	Sudan
Rich, Fred T., 2S	Wolfforth	Shannon, Carrie, 5G	Levelland
Richardson, Faye, 3H	Levelland	Shannon, Katherine, 2G	Levelland
Richeson, W. W., 4S	Somerville, Ind.	Shannon, Mary Lucy, 3G	Levelland
Richey, Mrs. Opal, 2Ed	Haskell	Shaw, Arvil B., 2A	Weatherford
Richey, W. L., 1S	Haskell	Shaw, Mrs. Arvil B., 3H	Weatherford
Rickert, Thelma, 2G	Seymour	Sheely, Mary Beth, 4G	Lubbock
Riethmayer, L. C., 3S	Lamesa	Shelton, Joe L., 1Ed	Brownfield
Riley, Evans, 2E	Lubbock	Shelton, Ouida, 3G	Rotan
Roach, Harriette, 3G	Lubbock	Shepard, John L., 4A	Lubbock
Robbins, Ora Mae, 5G	Childress	Sheriff, Etha, 1Ed	Farwell
Roberson, H. L., 3B	Lorenzo	Sheriff, Velna, 3H	Farwell
Roberson, Hugh B., 2Ed	Lubbock	Sherrill, Clarice, 2S	Seagraves
Roberson, Mrs. Laska Hudson, 2H	Lubbock	Sherrill, Maggie M., 2S	Seagraves
Roberts, Charles, 2S	Caradan	Shields, Doris, 3H	Lubbock
Roberts, Mrs. Lou, 4Ed	Pampa	Shinn, Mrs. John C., 4S	Plainview
Roberts, Margaurite, 1G	Post	Short, Eddie L., 3Ed	Lubbock
Robinson, Raymond, 1S	Post	Short, Nina Ruth, 1Ed	Meadow
Rogers, Carl P., 4S	Houston	Shropshire, Mary Louise, 3G	Lubbock
Rogers, Dwain, 1E	Lubbock	Sides, R. F., 2Ed	Hurlwood
Rogers, Jackie Lucille, 4B	Plainview	Simmons, Eleanor, 3G	Lubbock
Rogers, Lester, 2S	Idalou	Simmons, H. Duncan, 4H	Lubbock
Rogers, Willie, 2A	Lubbock	Simms, George, 4B	Panhandle
Rollins, Ida Lee, 2G	Littlefield	Simms, M. Georgia, 5Ed	Amarillo
Rose, Katherine, 2H	McAdoo	Sims, Aulsie, 2G	Personville
Ross, Margaret Glass, 2G	Sweetwater	Skeen, Mrs. S. E., 2G	Lamesa
Ross, Samette, 2B	Plainview	Skipping, Ernest, 2A	Zephyr
Roussel, W. A., 4E	Brownwood		

Slaughter, Leona, 2G	Sudan	Sturgeon, Gladys, 1S	Lubbock
Slone, Crockett, 2S	Gausby, N. M.	Sturgeon, Oletha, 2S	Lubbock
Smith, Alice, 1G	Floydada	Sullivan, Verna Mae, 1H	Wolfforth
Smith, Mrs. Alice L., 3G	Rogers	Summers, Thelma, 5S	Quanah
Smith, Ann, 2G	Lubbock	Sumner, Pauline N., 5S	Idalou
Smith, Mrs. Ben V., 2Ed	Lubbock	Sutton, Blanche, 2Ed	Brownfield
Smith, Chester H., 2S	Lubbock	Sweet, Edwin L., 1S	Blackwell
Smith, Dyer S., 2S	Big Spring	Sweepstone, Wynona, 2H	Tulia
Smith, Esther E., 2H	Tahoka		
Smith, Faye, 3Ed	Post	Tabor, Elgie, 2S	Levelland
Smith, Mrs. F. P., 4Ed	Lubbock	Tabor, Orbin H., 1S	Causey, N. M.
Smith, Mrs. Frank, 2S	Crosbyton	Tackitt, Franke, 2S	Seymour
Smith, Garland, 4S	Lubbock	Tackitt, Hope, 3S	Seymour
Smith, Ima, 1B	Ralls	Tadlock, J. H., 4E	Amarillo
Smith, Jewel Philip, 3S	Portales, N. M.	Tarrance, Leta, 2Ed	Lubbock
		Tate, Vera, 2G	Lubbock
Smith, J. H., 1B	Lubbock	Taylor, Mrs., 2G	Tahoka
Smith, Mrs. J. J., 2G	Lubbock	Taylor, Clarice, 1S	Paducah
Smith, John Holman, 2E	Coleman	Taylor, Evelyn, 3G	Clovis, N. M.
Smith, Mrs. June, 1G	Plains	Taylor, Frank, 1A	Fluvanna
Smith, Mrs. Lee, 1 Ed	Crosbyton	Taylor, Garland D., 2Ed	Olney
Smith, Lucille, 1G	Gem	Taylor, Johnie Margaret, 1G	Clovis, N. M.
Smith, Mavis Ann, 5G	Plainview		
Smith, Maxene, 3 G	Lubbock	Taylor, Mrs. Muriel, 2G	Oilton
Smith, Myrtle, 1S	Lometa	Terry, Allen R., 1S	Trent
Smith, Preston, 2S	Lamesa	Terry, Estelle, 2S	Trent
Smith, Travis W., 4E	Olney	Thacker, Elizabeth, 1Ed	Petersburg
Smith, Wilmer, 3Ed	Tahoka		
Sneed, Louise, 4 Ed	Dalhart	Therwhanger, Thelma, 2Ed	Weinert
Snider, Willie, 4 Ed	Crosbyton		
Snodgrass, Floyce, 3 Ed	Lubbock	Thomas, Bessie Mae, 2G	Dumont
Snodgrass, Weldon, 5S	Abernathy	Thomas, Mary Louise, 3H	Lubbock
Snodgrass, Mrs. Weldon, 3Ed	Abernathy	Thomas, Wm. T., 2E	Lubbock
		Thompson, Gwendolyn, 3G	Lubbock
Snyder, F red, 1S	Lubbock	Thompson, Ruth A., 2H	Lubbock
Snyder, Laura, 5S	Moran	Thompson, Willie May, 1Ed	Loraine
Sowder, Mrs. Eppie E., 5S	Lubbock	Thurman, Ethel E., 4Ed	Cisco
Spann, Fern, 1H	Plainview	Thurman, Stella K., 3Ed	Lubbock
Sparkman, Eirys, 3H	Coleman	Tippett, Faye, 2Ed	Gatesville
Speer, J. B., 5Ed	Morse	Tippet, Linnie Inez, 2Ed	Tahoka
Speer, J. E., 5 Ed	Dickens	Tipps, Allie Mae, 2H	Quitauque
Spencer, J. L., 2A	Flomont	Tolbert, Hunter, 1S	Lubbock
Spikes, Mrs. Addie, 3S	Lubbock	Townsend, James N., 2G	Wilson
Spilter, Carrie, 3G	Levelland	Trotter, Marie, 3Ed	Lubbock
Squires, Faye, 2 Ed	Richland Springs	Trotter, Mrs. Ann Alden, 3G	Lubbock
Stallings, Kathryn, 3G	Post	Tubbs, Billy, 1S	Lubbock
Stark, Guy Jr., 5G	Seminole	Tunnell, Fleda, 5S	Stephenville
Stark, Jewell, 2H	Houston	Turner, Edna, 5H	Abilene
Stavely, Vera, 2G	Fluyanna	Turner, J. F., 2E	Santa Anna
Steele, Roberta, 2H	Levelland	Turner, Lacy R., 4G	Claude
Steen. Alfred Burton, 5Ed	Graham	Turner, Rowena, 4G	Lubbock
Sterling, Hazel, 1G	Ropesville		
Stewart, Lenora, 3Ed	Waco	Ullrich, Anton, 4E	Waco
Stewart, Thomas H. Jr., 4S	Lubbock	Underwood, Clara Mae, 2Ed	Gorman
Stimson, Vernelle, 2G	Snyder	Underwood, W. R. Jr., 4E	Bartlett
Stine, Lulu, 5G	Henrietta		
Stone, Haskell, 2A	Haskell	Vanderford, Chrystel, 2G	Shield
Stone, Yone, 2Ed	Vernon	Vannerson, Lucien C., 4Ed	Tulia
Stooksberry, Willie P., 4H	San Angelo	VanNess, Bishop, 1E	Anson
		Vardeman, Marie, 1H	Richland Springs
Stovall, Genell, 1 G	Floydada	Vardeman, Pearl, 2H	Richland Springs
Strickland, J. D., 4A	Silverton		
Stubblefield, Mrs. B. W., 1Ed	Lubbock	Varnell, Robert, 1G	Barry
		Vars, J. Stanley, 2S	Tulia
Sturdivant, Ira, 3A	Springtown		

Vaughan, Beverly, 1G	Pecos	Whitefield, Truman, 3G	Emory, La.
Vaughn, Mrs. Amy E. Seigler, 2H	New Home	Whitis, A. M., 5Ed	Kemper
Vaughn, Clovis L., 5G	New Home	Whittaker, Jennye Mae, 2G	Lubbock
Vaughn, Davis, 1S	Lubbock	Wicker, Ardell, 2G	Slaton
Vaughn, Eva Tyer, 1Ed	Lubbock	Wicker, Geraldine, 1G	Slaton
Vaught, Johnnie, 1G	Slaton	Wiggins, A. M., 4E	Lubbock
Vise, Grace, 1Ed	Kilgore	Wigington, Frances, 2Ed	Chillicothe
Vowell, Lois, 2Ed	Robert Lee	Wilder, Wm., 4E	Lubbock
Waggoner, Woodrow, 2E	Ranger	Wilhelm, Paul H., 1S	Lamesa
Walden, Vada, 3G	Lubbock	Wilke, Eloise, 3H	Lubbock
Waldrip, Lorine, 2G	Post	Wilkins, Ada C., 5G	Ackerly
Wales, Gladys, 3Ed	Littlefield	Wilkins, Paul E., 1A	Lubbock
Walker, Burnice, 1G	Littlefield	Wilkinson, Zada, 1G	Throckmorton
Walker, Faye, 1Ed	Britton	William, Arvil, 1Ed	Jayton
Wallace, Ernest, 5Ed	Hughes Springs	Williams, Authala, 3S	Brownwood
Waller, Ray L., 4S	Dawson	Williams, Curtis J., 5 Ed	Anton
Walls, Jewel, 1H	Santo	Williams, Everett, 1G	Roby
Ward, Winnelle, 3H	Lubbock	Williams, Fred, 3E	Lubbock
Ware, R. C., 5 Ed	Lubbock	Williams, J. Dean, 1A	Mt. Pleasant
Ware, Mrs. R. C., 2G	Lubbock	Williams, Johnnie, 3G	Mullin
Waters, G. Dallas, 2G	Shamrock	Williams, Marvin, 2Ed	Jayton
Water, Hayes H., 2G	McLean	Williams, Robert, 2Ed	Jayton
Waters, Ruth Grinstead, 2H	Shamrock	Williams, Sarah L., 2S	Nuangua, Pa.
Watkins, Ira, 4G	Meadow	Williamson, Mrs. B. G., 3 Ed	Lubbock
Watson, Mrs. Audean, 2Ed	Quanah	Williamson, J. C., 5 G	Lubbock
Watson, Chancy, 2E	Grand Saline	Williamson, Mildred, 1S	Lubbock
Watson, Dimple, 2G	Lubbock	Willis, Bonnie, 3H	Wellington
Watson, Johnnye, 2H	Hermleigh	Willis, Louise, 3H	Wellington
Watson, K. D., 3 Ed	Houston	Willis, Waid Scott, 2S	Amarillo
Watson, Melba, 3G	Lubbock	Wills, Olive, 1Ed	Fluvanna
Watson, Mrs. Pearl, 4 Ed	Lubbock	Wilmeth, Hazel, 2G	Brad
Watson, Priscilla, 2 Ed	Girard	Wilson, Dorothy, 5G	Ropesville
Watson, Ross, 3 E	Mineral Wells	Wilson, Georgia, 2G	McLean
Wayland, Bob, 4E	Plainview	Wilson, Woodrow, 2B	Louisville, Miss.
Weatherall, Stella, 2G	Olden	Wiman, Miltie, 1Ed	Roscoe
Weathers, Fredice, 5G	Tahoka	Windwehen, Mozele, 1G	Plainview
Weaver, M. J., 5 Ed	Tahoka	Winn, Jewel W., 1H	Levelland
Weaver, Mrs. M. J., 5 Ed	Tahoka	Winston, Mac, 2S	Fe. Worth
Webb, Joe, 3G	Hamlin	Wischaemper, Erolene, 2 Ed	Shamrock
Webb, M. W., 2G	Abernathy	Withers, Mrs. Gertrude V., 2G	Sweetwater
Webster, Mrs. D. D., 4G	Lubbock	Witt, I. R., 5 Ed	Post
Weddle, Charles, 1A	Bonham	Wolfe, Cecil L., 2G	Spur
Weddle, W. M., 3A	Bonham	Wolfe, Jean, 1H	Lefors
Wedeking, Ruby, 1G	Stamford	Wood, N. E., 2A	Hughes Springs
Weed, Ola Mae, 5H	Abilene	Wood, Mrs. N. E., 3Ed	Tahoka
Wells, Ray C., 3B	Wellington	Wright, Harold, 2B	Kress
Wells, Robert A., 2G	Longstreet, La	Wyatt, Grace, 3G	Silver Valley
West, Milton E., 3S	Abilene	Yarbrough, Roma, 2G	Cisco
West, R. M., 3Ed	Wellington	Young, Elizabeth, 4Ed	Bowie
Wester, Jack D., 4Ed	Brownfield	Young, Jesse, 3A	Catulla
Wester, Newton, 2S	Las Vegas, N.M.	Young, Thomas, 3E	Lubbock
Wester, Mrs. Rosanelle G., 2H	Brownfield	Young, L. D., 3 Ed	Jonesboro
Wharton, Ina Belle, 2H	Littlefield	Young, Mrs. Will S., 4G	Bowie
White, Helen, 2H	Sudan	Young, Mrs. L. D., 3G	Jonesboro
White, Ima, 1Ed	Post	Zimmerman, Fred, 2Ed	Floydada
White, Lillie, 4H	Stephenville	Zorns, Bruce, 4E	Meadow
White, Mrs. Lola, 2Ed	Aberdeen	Zorns, Tom, 3G	Meadow
White, Sam, 2E	Aberdeen		
Whiteman, Bernadine L., 2G	Brady		

APPENDIX

Act of the State Legislature establishing the Texas Technological College, Senate Bill, 103, Thirty-Eighth Legislature, 1923.

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 these 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 places 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 student 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 thereof, 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 ap-

proval 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 purpose 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 (\$2,500) 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 thereof:

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 purpose 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 adequately 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.

INDEX

Absences	48, 49, 56
Academic Costume Required	58
Adding Courses	49
Administration	26, 27
Administrative Council of College	17, 26, 58
Administrative Officers	6
Administrative Option, Mechanical Engineering	109, 130
Admission—See Entrance	33-37, 243
Advanced Standing	37
Advisers, Faculty	17
Agriculture, Division of	69-94
Admission Requirements	37, 71
Curricula	73-78
Degrees	72
Electives	78
Equipment	69, 84, 87, 90
Experience Required	72 82
Field for Graduates	70
Graduation Requirements	71
Teachers' Certificates	70, 82
Trips and Judging Teams	71
Uniform Freshman and Sophomore Years	71
Agricultural Departments:	
Agricultural Economics and Farm Management	73, 79
Agronomy—See Plant Industry	76, 92
Animal Husbandry	74, 84
Dairy Manufactures	75, 87
Horticulture—See Plant Industry	77, 91
Plant Industry	76, 77, 90
Vocational Agriculture	82
Agricultural Economics and Farm Management, Department of	73, 79
Agronomy	76, 92
Aids, Student	61
Alumni Association	31
Animal Husbandry, Department of	74, 84
Anthropology	215, 219
Appendix	301-304
Application for Degree	58
Applied Arts, Department of	147
Architectural Engineering	99, 113
Architecture and Allied Arts, Department of	98, 99, 100, 113
Art, Commercial	100, 113

Artist Course	66
Arts and Sciences, Division of	155-242
Admission Requirements	33, 155
Courses Leading to Study of Law	158
Courses Leading to Study of Medicine	158, 160, 161
Degrees	155
Bachelor of Arts	155, 156, 157
Bachelor of Business Administration	170
Bachelor of Science, Botany Major	164
Bachelor of Science, Chemistry Major	166
Bachelor of Science in Education	171
Bachelor of Science, Geology Major	167
Bachelor of Science, Mathematics Major	169
Bachelor of Science, Physics Major	168
Bachelor of Science, Uniform Freshman Year	162
Bachelor of Science, Zoology Major	165
Graduation Requirements	156
Arts and Sciences Departments:	
Biology	164, 165, 175
Chemistry and Chemical Engineering	166, 178
Economics and Business Administration	170, 182
Education and Psychology	172, 187
English	197
Foreign Languages	205
Geology and Geological Engineering	167, 208
Government	212
History and Anthropology	215
Mathematics	169, 219
Military Science and Tactics	224
Music	225
Philosophy and Sociology	231
Physical Education	232
Physics	168, 236
Speech	239
Association of American Colleges	31
Association of Colleges and Secondary Schools of the Southern States	31
Association of Texas Colleges	31
Association, National University Extension	31
Athletics	30
Athletics Conference	30
Attendance, 1925-1934	259
Bacteriology	175
Band	66
Biblical History and Literature, Courses in	242

Biology, Department of	164, 165, 175
Board of Directors	3, 5, 26
Board and Room	40-43
Bookstore, College	30, 41
Border Athletic Conference	30
Botany	164, 176
Buildings and Grounds	23, 26
Business Administration and Economics, Department of	170, 182
Business Administration, Principles	185
Business Administration, Secretarial Courses	184
Calendar	2, 3
Campus	26
Catalogue	32
Change of Schedule	47, 48, 49, 50, 57
Change of Section	50
Chemistry and Chemical Engineering, Department of	101, 117, 166, 178
Chemistry Option, Textile Engineering	110, 136
Choral Club	66
Christmas Holidays	3
Civil Engineering, Department of	102, 118
Classification of Students	51
Clothing and Textiles, Department of	142, 148
Clubs and Societies	67, 68
Clubs, Departmental Honor and Scientific	68
Clubs, Service	67
Co-Education	31
Commercial Art	100, 113
Committees of the Board	5
Committees, Faculty	17
Conditions, Admission with	35, 36
Correspondence Courses	248
Cost	40
Course Numbers and Value of	55
Cuts	48, 49
Dairy Manufactures, Department of	75, 87
Date of Opening of 1934-35 Session	2
Dead Week—See Social Activities, Restricted Week of	57
Debate and Oratory	67
Degrees, Bachelors':	
Application for	58
Agriculture	72
Arts and Sciences	155, 156, 159, 161, 162, 170, 171
Engineering	95
Home Economics	141

Degrees, Masters'	155, 243
Degrees, Professional Engineering	246
Degrees Conferred 1925-1934	260
Degrees Conferred 1932-1933	262
Departments of Instruction	27
Deposits	38
Diplomas	58
Directory	65
Discipline	46, 47
Dormitories	25, 42, 43
Double Cuts	49
Drawing	113, 126
Dropping Courses	49
Easter Vacation	3
Economics and Business Administration, Department of	170, 182
Education and Psychology, Department of	172, 187
Education, Bachelor of Science Degree in	172
Education Courses	189, 193
Educational Associations, Membership in	31
Electrical Engineering, Department of	103, 121
Employment, Student	64
Engineering Drawing, Department of	124, 126
Engineering, Division of	95-138
Curricula	98-112
Degrees	95, 179, 209
Field for Graduates	96
Graduation Requirements	97
Orientation	97, 121
Regulations	97
Transcripts	97
Uniform Freshman Year	97, 101
Engineering Departments:	
Architecture and Allied Arts	98, 99, 100, 113
Chemistry and Chemical Engineering	101, 117, 178
Civil Engineering	102, 118
Electrical Engineering	103, 121
Geology and Geological Engineering	104, 124, 208
Industrial Engineering, Engineering Drawing and Industrial Education	105, 106, 107, 124
Mechanical Engineering	108, 109, 130
Textile Engineering	110, 111, 112, 136
Engineering Option, Textiles	111, 136
English, Deficiencies in	54

English, Department of	197
Enrollment, 1933-1934	258
Enrollment, 1925-1934	259
Entrance	33-37
Advanced Standing	37
Conditions	36, 37
Correspondence Courses	254
Examinations	2, 3, 35
Graduate Study	243
Requirements	33
Examinations, Dates of	3
Examinations, Admission by	35
Expenses	38-41
Extension, Department of	31, 247
Courses Offered	248, 255
Fabric Design Option, Textiles	112, 136
Facilities	26
Faculty	7
Faculty Committees	17
Farm Machinery and Engineering	93
Farm Management, Agricultural Economics and	79
Fees:	
Breakage	38, 40
Deposits	38
Exemption from	39
Medical Service	38
Out-of-State Student	38, 39, 40
Registration	38
Return of	39, 40
Special Courses	41
Student Activities	38, 40
Foods and Nutrition, Department of	143, 150
Foreign Languages, Department of	205, 244
Foreword	18
Fraternities, Social	32
French	207
General Agriculture	94
General Home Economics	145
General Information	22
Geography	209, 212
Geology and Geological Engineering, Department of	104, 124, 208
German	207
Glee Club	66
Government, Department of	212

Government, Courses Required	189, 212, 213
Grade Points	54
Grades	51-54
Grades, Mid-semester	2, 3
Graduate Study	243
Courses	245
Professional Degrees	246
Graduation Requirements 57, 58, 71, 97, 141, 156, 159, 161, 162, 170, 171, 243	
Group Study Courses by Correspondence	247
Group Study Courses for Clubs	247, 256
Hazing	47
High School Certificates, Admission by	33, 34
History, and Act Establishing Texas Technological College	22, 301-304
History and Anthropology, Department of	215
Holidays	2, 3
Home Demonstration Major	146
Home Economics, Division of	239-154
Curricula	142-146
Degrees	141
Equipment	139
Field for Graduates	139
Graduation Requirements	141
Teachers' Certificates	140
Vocational Certificates	140
Home Economics Departments:	
Applied Arts	147
Clothing and Textiles	142, 148
Foods and Nutrition	143, 150
Home Economics Education	144, 152
Home Management	153
Home Economics Education, Department of	144, 152
Home Management, Department of	153
Home Management House	139, 153, 154
Honors	61-64, 261
Horticulture	77-91
Housing.	
Inspection and Approval	43, 44
Regulations	42-45
Regulations for Men	42-45
Regulations for Students	42-45
Regulations for Women	42-45
Industrial Arts	107, 124, 129
Industrial Education	106, 124, 128

Industrial Engineering, Engineering Drawing, and Industrial Education	105, 106, 107, 124
Information, General	22
Intramural Transfers	57
Journalism	203
Late Enrollment	2, 3, 38
Latin	208
La Ventana	65
Law	158, 185, 214
Law, Studies Preparatory to	158
Library	28
Library Fee and Deposit	38
Loan Funds	62
Location	22
Low Grades	37, 51-54, 56, 97
Lubbock Sanitarium	59
Mathematics, Department of	169, 219
Mature Students, Admission of	35
Mechanical Engineering, Department of	108, 109, 130
Mechanical Engineering, Administrative Option	109, 130
Medical Service for Students	59
Medicine, Studies Preparatory to	160
Men Students, Regulations for	42
Military Science and Tactics, Department of	55, 224
Museum	29
Music, Department of	225
Musical Organizations	66
Music, Special Courses in	41
Night Classes	255
Nutrition, Foods and	143, 150
Officers of Administration	6
Officers of Instruction	7
Oratory and Debate	67
Orchestra	66
Organization of College	26, 27
Administration Division	27
Agriculture	27
Arts and Sciences	28
Engineering	27

Organization of College (Continued)	
Extension	28
Home Economics	27
Plant Operation	28
Orientation	2, 94, 97, 121, 141, 154, 230
Painting	115
Philosophy and Sociology, Department of	231
Physical Education, Departments of	232
Physical Education for Men	55, 232, 233
Physical Education for Women	55, 232, 234
Physical Education for Women Pre-Professional Work	234
Physical Education Required	30, 55, 232, 233
Physics, Department of	168, 236
Plains Museum Society	29
Poultry Husbandry	86
Pre-Law Curriculum	159
Pre-Medical Curriculum	160
Probation	56
Psychology	192, 196
Public Speaking—See Speech	239
Publications, Official	32
Publications, Student	65
Register of Students	270
Registration, Dates of	2, 3
Regulations for Students	42-58
Discipline	46
Housing	42
Scholarship	47
Religious Education	242
Religious Organizations	65, 66
Reports, Mid-Semester	2, 3
Requirements for Graduation	54, 57, 58
Residence Requirements	57, 244
Rooming House Regulations	42-45
Rural Sociology	81
Scholarships and Prizes	61
Scholarship Probation	56
Self-Help	64
Semester Hours:	
Maximum Number	55
Method of Numbering Courses	55
Value of	55

Shop—See Mechanical Engineering	130
Short Courses Attendance	259
Sick, Care of	59
Social Activities, Restricted Week of	57
Sociology	231
Spanish	205
Special Regulations for Women	45
Speech, Department of	239
State Teachers Certificates, Admission by	35
Statistical Summary	258
Student Activities	38, 39, 65-68
Student Aid	61-64
Student Checks Unpaid	47
Student Clubs and Societies	67
Student Council	65
Student Directory	65
Student Employment	64
Student Organizations	65-68
Student Publications	65
Student Regulations	42-58
Students, Classification of	51
Students, Register of	270
Subjects Accepted for Admission	33-37
Summer Session	257
Suspension from College	46
Teachers Certificates	35, 70, 82, 124, 128, 140, 152, 187
Teaching Major and Minor Requirements	173
Texas Technological College:	
History	301-304
Location	22
Text Books and Supplies	40, 41
Textile Engineering, Department of	110, 111, 112, 136
Textiles:	
Chemical Option	110, 136
Engineering Option	111, 136
Fabric Design Cotton	112, 136
Textiles, Clothing and	142, 148
Thanksgiving Day	2
Toreador	65
Transcripts	34, 37, 97
Transfers from Other Institutions	37
Transfers, Intramural	57
Tuition	38-41

Vacations	3
Veterinary Science	87
Vocational Agriculture Teacher Training	70, 78, 82
Vocational Home Economics Teacher Training	140, 144, 152
Vocational Industrial Education Teacher Training	128
Withdrawal from College	56
Women Students, Regulations for	43, 45
Women's Athletic Association	234
Young Men's Christian Association	65
Young Women's Christian Association	65
Zoology	165, 177