

**BULLETIN**  
  
OF THE  
  
**TEXAS TECHNOLOGICAL  
COLLEGE**

PUBLISHED MONTHLY

---

Vol. IX.

July, 1933

No. 3

---



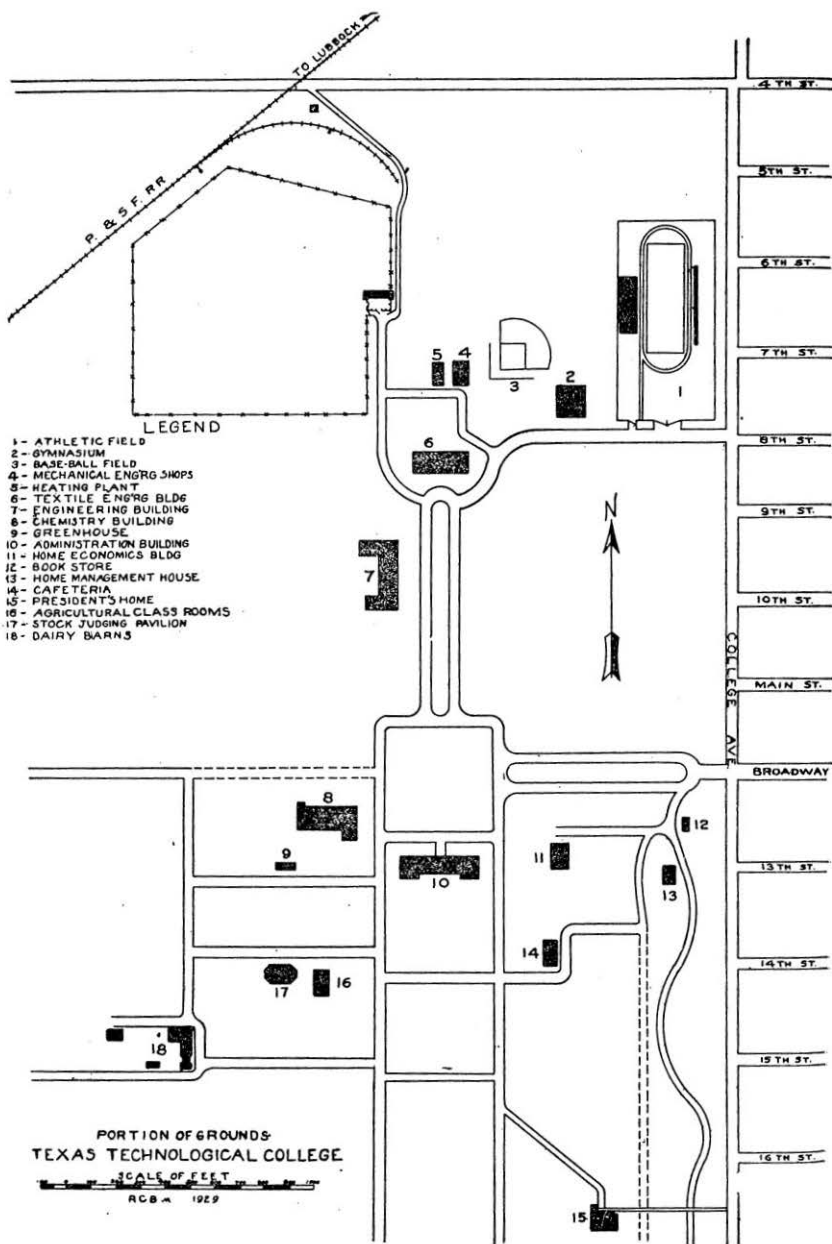
**EIGHTH ANNUAL  
CATALOGUE NUMBER  
1932-1933**

**WITH  
ANNOUNCEMENTS FOR 1933-1934**

**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

## NINTH ANNUAL SESSION

1933

September 15, 10:00 A. M., Friday. Opening faculty meeting.

September 18-19, Monday-Tuesday. Entrance examinations.

September 20-21, Wednesday-Thursday. Freshman orientation. All entering freshmen required to be present.

September 21-23, Thursday-Saturday. Registration of all students.

September 22, Friday. Open house for all students by the churches of Lubbock.

September 24, Sunday. Annual opening sermon for the College, 8:00 P. M., College Gymnasium.

September 25, Monday. Fall semester classes begin at 8:00 A. M.

September 25, Monday, 8:00 to 10:00 P. M. Reception to student body by President and Mrs. Knapp.

September 28, 11:00 A. M., Thursday. Opening convocation for all students and faculty, College Gymnasium.

September 30, Saturday. Last day students may register for full work.

October 2, Monday. Last day students already registered may add or change a course.

October 7, Saturday. Last day students may register in fall semester except by special permission of the College Council.

October 7, Saturday. Last day a student may add or change a course.

November 11, Saturday. Armistice Day—Holiday.

November 22, 5:00 P. M., Wednesday. Mid-semester reports due in Registrar's office.

November 30-December 4, 8:00 A. M. Thanksgiving holidays.

December 22, 5:00 P. M., Friday. Christmas holidays begin.

## 1934

January 2, Tuesday. Classes resumed at 8:00 A. M.

January 26, 27, 29, 30, 31, Friday-Wednesday. First semester examinations.

January 31, 5:00 P. M., Wednesday. First semester closes.

February 1, Thursday. Registration of all students not in attendance during the first semester.

February 2, 8:00 A. M., Friday. Second semester classes begin.

February 12, Monday. Last day students may register for second semester except by special permission of the College Council.

February 12, Monday. Last day students may add or change a course.

March 29, 5:00 P. M., Thursday. Mid-semester grades due in Registrar's office.

March 30-31, Friday-Saturday. Easter vacation.

May 25, 26, 28, 29, 30, 31, Friday-Thursday. Second semester examinations.

June 1, Friday. Annual reception to seniors and faculty at President's residence.

June 3, Sunday. Baccalaureate Sermon.

June 4, Monday. Senior Class Day, Alumni Day, Alumni Banquet, Annual Meeting of Board of Directors.

June 5, 10:00 A. M., Tuesday. Annual Commencement and graduation exercises.

June 7, Thursday. Summer session begins.



## BOARD OF DIRECTORS

### OFFICERS OF THE BOARD

CLIFFORD B. JONES, Chairman ..... Spur  
ROSCOE WILSON, Vice-Chairman ..... Lubbock  
HOUSTON HARTE, Treasurer ..... San Angelo  
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  
HOUSTON HARTE ..... San Angelo

#### 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 ..... HOUSTON HARTE

#### *Legislative Committee*

HOUSTON HARTE, Chairman  
JOHN A. HULEN ..... JOE T. SNEED

## 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 LEIDIGH, 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.

CARL LARS SVENSEN, B. S., M. E., *Acting Registrar*, 1926, 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, 211 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.

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*, 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 GODEKE, *Professor and Head Department of Mechanical Engineering*, 1930.

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

ROBERT CABANISS GOODWIN, *Professor and Head Department of Chemistry*, 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 ALBERT 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*, 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.

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

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

WILLIAM LAMKIN RAY, *Professor of Chemistry*, 1925.

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

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 SMITH, *Professor of Physical Education*, 1930.

B. A., Austin College.



FRED WINCHELL SPARKS, *Professor of Mathematics*, 1926, 1928.  
B. A., M. A., Southwestern; M. S., Ph. D., Chicago.

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.

CARL LARS SVENSEN, *Professor and Head Department of Engineering Drawing; Acting Registrar*, 1926, 1933.  
B. S., M. E., Tufts College.

RALPH SYLVESTER UNDERWOOD, *Professor of Mathematics*, 1927, 1931.  
B. A., M. A., Minnesota; Ph. D., Chicago.

WILLIAM RICHARD WAGHORNE, *Professor and Head Department of Music*, 1925.  
A. A. G. O., F. A. G. O., New York.

MARGARET WATSON WEEKS, *Dean of Home Economics and Professor of Nutrition*, 1925.  
B. S., M. S., Columbia.

#### ASSOCIATE PROFESSORS

WARREN PERRY CLEMENT, *Associate Professor of Education and Psychology*, 1926, 1927.  
B. A., M. A., Baylor.

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.

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.

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.

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

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

JAMES ODEL MORGAN, *Associate Professor of Physical Education*, 1930.

B. A., Austin 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.

MONTELL 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.

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.

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.

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.

SAMUEL JED BOLLER, *Assistant Professor of Engineering Drawing*, 1928.  
B. E., M. A., Iowa.

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.

JOHNNYE GILKERSON, *Assistant Professor of Physical Education*, 1925, 1927.  
B. B. A., Texas; M. A., University of Southern California.

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 Texas 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*, 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.

ALFRED BELL STREHLI, *Assistant Professor of Foreign Languages*, 1928.  
B. A., B. S., M. A., Ohio State University.

#### INSTRUCTORS AND ASSISTANTS

LLOYD C. CHRISTIANSON, *Instructor in Mathematics*, 1928, 1931.  
B. A., Westminster; M. A., Missouri.

CECIL HARDEE CONNELL, *Graduate Assistant in Chemistry*, 1930, 1933.  
B. S., North Texas State Teachers College; M. A., Texas Technological College.

GEORGE WILSON DRAKE, *Graduate Assistant in Chemistry*, 1930, 1933.  
B. S., M. A., Texas Technological College.

CHARLES CHRISTOPHER GALBRAITH, *Graduate Assistant in Chemistry*, 1930, 1933.

B. S., Trinity.

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

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

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

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

CHARLES ERNEST HOUSTON, *Teaching Assistant in Physics*, 1932  
1933.

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

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

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

HARRY LEMAIRE, *Instructor in Music; Bandmaster*, 1925.

Certificate, Chicago Mus. Col.; F. R. A., Royal Academy of Music, London.  
England.

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

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

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

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

NOEL DONATIEN MOULTON, *Instructor in Foreign Languages*, 1931.

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

ROBERT PARKER, *Graduate Assistant in Mathematics*, 1931, 1933.

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

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.

RUTH ANTOINETTE POTTER, *Instructor in Foods and Nutrition*,  
1933.

B. S., M. S., Washington.

DOROTHY ELIZABETH PRAY, *Instructor in Foods and Nutrition*, 1932.

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

JESSE Q. SEALEY, *Instructor in Biology*, 1928.

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

WILLIAM EZRA STREET, *Instructor in Engineering Drawing*, 1928,  
1930.

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

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.

#### INSTRUCTORS IN SPECIAL DEPARTMENTS

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

MARY DEBARDELEBEN, *Biblical Literature. Under the auspices of the Woman's Department of the Board of Missions, M. E. Church South*, 1929, 1933.

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

BEULAH DUNN, *Violin*.

B. Mus., Chicago Musical College; Pupil of Max Fischel, Samuel Gardner, Rudolph Ganz, Andrea Ulbrich, and Ottakar Sevcik.

MYRTLE DUNN, *Voice and Piano*.

B. Mus., Chicago Musical College; Pupil of Herbert Witherspoon, Graham Reed, and Frank Webster, in voice; guest teacher, Chicago Mus. Col., summers of 1929, 1930, and 1931; pupil of Emil Liebling, Lillian Powers, and Alexander Raab, in piano.

WILLIAM FRANCIS FRY, *Biblical Literature. Under the auspices of the Baptist General Convention of Texas*.

B. A., Wake Forest; M. A.; D. D., Simmons.

BLANCHE GARNER, *Piano*.

Diploma, New England Conservatory of Music; pupil of Howard Goding.

MRS. ENOCH FRANKLIN GEORGE, *Piano*.

B. Mus., Cincinnati Conservatory.

MARGARET JOHNSON HUFF, *Piano, Organ, Voice*.

B. Mus., American Conservatory; Pupil of Lucile Tewksbury, and Alice Moncrief, in voice; Charles W. Landon, Mrs. J. M. Cassidy, and Mann of Egypt, in organ.

MRS. DOROTHY McDONALD KNICKERBOCKER, *Violin*.

Brenau Conservatory; Pupil of Eithel Allen Nelson, and E. B. Michaelis; Certificate in Proficiency in Violin Playing and Theory from Yale University School of Music; Scholarship pupil of Hugo Kortschok, New York.

MRS. FRANCES VIARS RIX, *Piano and Voice*.

Pupil of Harold von Mickwitz, Georg Kruger, Percy Grainger, Rudolph Ganz, Chicago Mus. Col., in Piano; Pupil of Oscar Seagle, New York; Herbert Witherspoon, Chicago Mus. Col., in voice.

MRS. CARL SCOGGIN, *Voice*.

Graduate of College of Music, Ottawa University.

## 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, *Reference Librarian*, 1929, 1931.  
B. A., Texas.

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

## OTHER EMPLOYEES

MRS. LOUISE CRAWFORD ALLEN, *Secretary to Head of Information Bureau*, 1928.

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

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

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

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

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

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

GEORGINA WOLSELEY 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.

ANNIE MERRILL ELLSWORTH, *Secretary to the Dean of Home Economics*, 1931.

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

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

RUTH HORN, *Secretary to Arts and Sciences Faculty*, 1933.

GUS WOOD McCLEARY, *Chief Bookkeeper*, 1931.

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.

ROSELLA BRASHEARS RUSHING, *Postmistress*, 1930, 1933.

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

VIRGINIA LEE TINER, *Switchboard Operator*, 1930.

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: Svensen, Godeke, Condray, Russell, Buster.
3. Housing for Men: Horne, Ray, Hardgrave, McKay, Woodbury.
4. Student Help: Horne, Smallwood, McRee, Mast, Mowery, Tilden.
5. Entrance Examinations: Clement, Parkhill, Sparks, Twyford, Bell.
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, Svensen.
11. Artists Course: Waghorne, Craig, Kleinschmidt, Sidwell, McGee.
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), Collins (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, Clements, 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 Adviser 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 this institution or at any other college or university is a difficult one. In common with other 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 catalogue 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 opportunity for selecting work of a technical character.

In the Division of Agriculture will be found those courses which fit one to become a farmer, a ranchman, a livestock raiser, dairyman, dairy manufacturer, horticulturist, landscape architect, florist, a scientist in any of the lines associated with agriculture, an agricultural extension worker, an agricultural teacher, an agricultural economist, an 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, this institution presents courses which fit the student for the profession of an architect, architectural engineer, a civil engineer, a chemical engineer, a commercial artist, an electrical engineer, a geological engineer, a mechanical engineer, a textile engineer, a textile chemist, a 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 the managing of a home; problems of clothing the family; the science of feeding the human race;

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

*Stick to Your Course.* When you have selected a course or vocation, remember that trained and experienced educators have set out the necessary studies you must 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. The freshman should take freshman subjects; the sophomores, sophomore subjects; the juniors, junior subjects; and the 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.* In studying this catalogue, we believe it will be well if you keep in mind some 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 so greatly by economic and social forces.

Fifth. You should be prepared for life with some knowledge of health, hygiene, foods, nutrition, diseases 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, in engineering, in 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 these 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 Technological College offers you a golden opportunity. The institution 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.

## 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 to cotton, this entire territory is a great livestock country with extensive feeding of beef cattle, sheep and hogs and a considerable dairy and poultry industry rapidly developing.

Lubbock is located on two railroad systems, the Forth 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 100 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 but very few insects, pests, and no mosquitoes; therefore, a total absence of malaria.

## HISTORY

The Texas Technological College was opened for the admission of students in the fall of 1925. The attendance in its first year was 1,043 students during the nine months session. The second year there were 1,535 students; the third, 1,682; the fourth full session, 2,088. In 1929-30 there were 2,353 students; 1930-31—2,319; 1931-32—2,155; and 1932-33—2,330. The summer session was organized for the first time in the summer of 1926 and has grown very steadily, the enrollment being as follows: 1926—336; 1927—677; 1928—965; 1929—1,298; 1930—1,316; 1931—1,556; and 1932—1,606.

The total enrollment for the long session 1932-33 and the summer session of 1932 was as follows: long session—2,330; summer session—1,606; extension—833; total—4,769.

The students attending the institution are not only from the counties immediately surrounding the institution, but from all parts of the State. One hundred and seventy-four counties of the State of Texas are represented in its student body during the scholastic year 1932-33. There are only one hundred and forty-seven out-of-State students attending Texas Technological College, most of them from the nearby States of New Mexico and Oklahoma.

## BUILDINGS AND GROUNDS

The Texas Technological College is excellently supplied with beautiful 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 institution.

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

appearance as well as commodious and serviceable for the use of the institution. Following are the principal buildings on the campus:

*Administration Building.* The Administration Building is a large and imposing structure sixty by three hundred feet and three stories in height. It is constructed of brick, with stone trimmings, and tile roof, and with 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. The Administration Building is located at the south side of the main quadrangle of the institution, facing north.

*Engineering Building.* The Engineering Building is a large two-story building of brick and stone with floor space of approximately 52,000 square feet. It is modern in every way and excellently equipped. In the building are located the Office of the Dean of the Engineering Division, offices of Engineering faculty members, laboratories, classrooms, a large lecture room, drafting rooms, Engineering Library, and equipment of the Department of Architectural, Civil, Electrical, Mechanical Engineering, and Engineering Drawing. The equipment consists of approximately \$70,000.00 worth of machinery, apparatus, scientific instruments and other equipment for the teaching of electrical, mechanical, civil, architectural engineering, and engineering drawing. This building is located on the west side of the main quadrangle of the institution, facing east.

*Textile Engineering Building.* The Textile Engineering Building is located at the north end of the main quadrangle, facing south. It is approximately sixty-five by two hundred and twenty 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 and up-to-date, consisting of all of 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.* The Chemistry Building is a large two-story building two hundred and fifty feet long by sixty feet wide, with one wing extending back forty 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, lecture rooms, and extensive laboratories well equipped with scientific apparatus. It is located west and north of the Administration Building, facing north.



*Agricultural Buildings.* The Agricultural Building consists of a one-story temporary office and classroom building, erected in 1927, in which are located the Office of the Dean and those of the members of the 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 with a large arena and tiers of seats. Part of this building is used for classroom purposes, and the balance is used for stock judging and as a general meeting place for large groups of the Division of Agriculture; also for farmers' meetings and meetings of many organizations visiting the Division of Agriculture. These buildings are located southwest of the Administration Building.

*Home Economics Building.* The Home Economics Building represents only a portion of the ultimate plans for the Division of Home Economics of this institution. The present building is approximately eighty by forty feet, two stories in height and contains the offices, classrooms, and laboratories for the Division of Home Economics. It is located east of the Administration Building.

*Home Management House.* The Home Management House is 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 the activities in the Division of Home Economics.

*Gymnasium.* The Gymnasium, erected in 1926, is 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 hold the student body and faculty at convocations. It contains offices, locker rooms, shower baths for physical education and athletics, a playing floor for basketball, gymnastics, and physical education, fifty by ninety feet. The seating capacity around the playing floor is approximately 1,400. When the floor is fully seated at convocations the building will accommodate 2,400.

*Mechanical Engineering Shop Building.* The Mechanical Engineering Shop Building is a one-story building of tile and stucco, fifty by one hundred feet, containing pattern shops, wood shops, machine shops, and other shops for the work of the Department of Mechanical Engineering, located north of the Textile Building.

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

*Farm Buildings.* Among the many facilities used by the Division of Agriculture are the Greenhouse, twenty-five by seventy-five feet, with an independent heating plant, 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 to be found frame structures for housing livestock and residences for the chief herdsmen who have charge of the livestock.

*Bookstore.* The Bookstore is located southeast of the Main Building. It is operated by the College for the purpose of supplying students with books, stationery, and other supplies necessary in their work at cost plus the necessary charges for handling.

## 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 permanently planned with a definite system of driveways and parking places, lawns, landscaping about the buildings, and a general plan of beautification. A great interest is being 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

The College property comprises approximately 2,008 acres, practically 1,688 acres lying west of the main campus and used by the Division of Agriculture as a farm upon which is grown feed crops, cotton, forage crops, vegetable crops, etc., 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 institution. 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 will 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 institution. The College Administrative Council, faculty committees, divisional faculties, and general faculty have their special provinces in the handling of matters affecting the institution.

## DIVISIONAL ORGANIZATION

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

I. *The Administrative Division:*

1. The President
2. Registrar
3. Library
4. Business Manager
5. Purchasing Agent
6. Public Information
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)

III. *The Division of Engineering:*

1. Department of Architecture and Allied Arts
2. Department of Civil Engineering
3. Department of Electrical Engineering
4. Department of Geological Engineering
5. Department of Mechanical Engineering
6. Department of Chemical Engineering
7. Department of Textile Engineering
8. Department of Engineering Drawing  
(Chemical Engineering and Geological Engineering are associated with the subject matter departments in 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 36,019 catalogued volumes, and in addition, some 20,000 manuscripts, maps, pamphlets, etc., not yet catalogued.

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 Illustrada 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, etc., 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 also a collection of records of the Spur Ranch, the gift of Mr. Clifford B. Jones, President of the Board of Directors. Through the courtesy of the State Library, photostatic copies were 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*, including the bound rag paper edition, form an especially important part of the periodical equipment.

Much material has been collected in the form of directories of Texas cities, at no expense to the institution by cooperation of various persons publishing such directories.

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 in particular.

The Library, in addition to its service to students and faculty members, lends books to residents of the city and to clubs in Lubbock and neighboring communities.

Books are purchased for the Library through a Library Committee with the cooperation of all departments of the institution in the selection of books.

## PLAINS MUSEUM SOCIETY

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

## THE COLLEGE BOOK STORE

The College Book Store is owned and operated on the campus by the institution. It is a self-sustaining enterprise of the institution. It is maintained to enable students to purchase text books, books for extension courses, supplies and other equipment needed for laboratory and other classes taught at the institution at actual cost of the books, plus the cost of transportation and sale of same. It also carries, for the convenience of students, an assortment of stationery and other supplies needed by students.

The Book Store maintains a lunch counter, serving light lunches, sandwiches, drinks and pastries, for the convenience of both the students and faculty members, because of the distance of the college from town.

The Book Store likewise handles second-hand books by purchasing same at the end of the year from students who desire to dispose of them. It gives prompt service on book orders. It maintains a complete book catalog service available to every one.

## ATHLETICS

As a part of the work of Physical Education, 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 or 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, Texas; Dallas, Texas; Dalhart, Texas; Sudan, Texas; and Pittsburgh, Pennsylvania.

An effort is made to keep a complete list of alumni with their addresses, positions held, progress in their life work, etc. Members are urged to send their names and addresses yearly to the Secretary of the Association. The officers of the Association for the ensuing year are: J. E. Speer, President, Channing; J. P. Williams, First Vice-President, Lubbock; B. C. Shulkey, Second Vice-President, Borger; J. W. Jackson, Representative on the Athletic Council, Lubbock; Mamie Wolfarth, Secretary, Lubbock; W. E. Street, member of Board of Directors for one year, Lubbock; Lloyd Croslin, member of Board of Directors for one year, Colorado; W. L. Pearson, member of Board of Directors for two years, Lubbock; Gordon Treadway, member of Board of Directors for three years, Lamesa.

## CO-EDUCATION

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

## MEMBERSHIP IN EDUCATIONAL ASSOCIATIONS

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



ciation 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 a part of college education is the maintenance of a true American spirit of democracy. The institution endeavors to promote a fine democratic spirit among all students of the institution 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 institution 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 institution 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 purpose of this catalogue is 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 an indication of the courses which the institution will offer during the ensuing year, but the institution reserves the right to make changes in courses at any time and

will offer courses 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 which 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 the 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

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

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

## GROUP B (VOCATIONAL)

Subject	Units	Subject	Units
Agriculture .....	$\frac{1}{2}$ -4	Public Speaking .....	$\frac{1}{2}$ -1
Commercial Arithmetic .....	$\frac{1}{2}$	Shorthand and typewriting .....	1
Bookkeeping .....	1	Any subject accepted by an	
Drawing .....	1-4	accredited secondary school	
Commercial Geography .....	$\frac{1}{2}$	for its diploma (except drill	
Commercial Law .....	$\frac{1}{2}$	subjects such as penmanship,	
Home Economics .....	$\frac{1}{2}$ -4	physical education, military	
Manual Training .....	1-4	training, etc.) .....	$\frac{1}{2}$ -1
Music .....	1		

## HIGH SCHOOL CREDENTIALS

*Transcript.* Students 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 they are to be enrolled, a transcript of their work in high school or other secondary school, showing that they are 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: Agriculture, Biology, Botany, Zoology, Physiology, Chemistry, Physics, General Science, and Physiography.

#### 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 designed 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. All conditions must be removed by examination or otherwise before he

can be enrolled in any sophomore courses in the College. These conditions may be removed by work taken in the Department of Extension.

#### TRANSCRIPT OF COLLEGE CREDITS

Students who have attended other colleges and have satisfactory records 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.

## REGULATIONS FOR STUDENTS

### DISCIPLINE

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.

### ABSENCE FROM CLASSES

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

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



(c) Absence due to illness or death in the student's family will count at half rate when approved to the Registrar by the dean of the 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 by any other manner satisfactory to the instructor concerned. When such missed recitations have been made up, the remaining absences are removed.

(b) Applications for the privilege of making up absences as in (a) of paragraph 3 must be made in writing to the Registrar and approved by the dean of the respective 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 paragraph 3b, 3c, and 4a.

#### ADDING SUBJECTS

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

No course may be added after 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 subject should be obtained on these add cards.
3. The dean's approval of the add cards should be obtained then.
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 SUBJECTS

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 subject 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 subject 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 be obtained then.

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 30 semester hours.

*Junior*—A regularly enrolled student who has completed not less than 64 semester hours and 64 grade points and not more than 95 semester hours.

*Senior*—A regularly enrolled student who has completed not less than 95 semester hours and 95 grade points.

*Graduate*—One who has completed the requirements for the Bachelor's degree and 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.

#### 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 in any given class at or after mid-semester must receive a grade at the end of the semester. No grade may be given to a student not regularly en-

rolled in a class 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 at mid-semester before graduation, any grade of "E" which then stands 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., was 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 at mid-semester before graduation, any grade of "Inc." which then stands 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 mid-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 mid-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 whenever a student fails

in a course and also whenever the student withdraws from a course in a manner prescribed by college regulations on or after mid-semester without his having a passing grade in the subject.

#### 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 credits accept 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 training. 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

Students in any of the divisions of the College who are found to be notably deficient in the fundamentals of English composition will be required, under the direction of the Department of English, to remove such deficiency before graduation. Special reports on this general requirement in English will be made at or before the beginning of the junior year.

#### 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.

#### 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 131-2, or Industrial Engineering 4311-12, meaning that a subject extends over 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:

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

(b) 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.

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

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

(e) 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.

#### 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 institution's class rolls. 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.

#### HAZING

Hazing is forbidden by the law of the State and by the College regulations. The students have cooperated with the College officials in this matter and have pledged themselves not to practice or permit hazing.

#### WARNING ON STUDENT CHECKS

Students are urged to exercise care in paying fees or making campus



purchases by checks. A returned check calls for a penalty. Warning will be issued either by telephone or by letter to the student, and if the check is not taken up at once, the matter will be referred to the dean of the proper 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.

#### 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 resident work in this College for not less than 36 weeks and earn at least 30 semester hours credit, in addition to any number of credits accepted from any other institution. The student must also make before graduation a total number of grade points in residence equal to at least the number of credit hours required in residence for graduation.

2. The candidate for any degree must file his application for the degree with the Registrar and with his dean not less than 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. The candidate for a degree must be attired in the correct academic costume when presenting himself for a degree.

5. 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.

## HOUSING REGULATIONS

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

Board and room may be secured at reasonable rates. The housing committee has always been able to provide ample accommodations for all students. Room and board should be paid for in advance, but the College does not assume any responsibility for the payment or collection of such bills.

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

The College will retain 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.

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

2. The proprietor must be of good moral character and must agree to cooperate with the committee in carrying out housing regulations.

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

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

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

6. Proprietors are required to report to the housing committee immediately any changes of residence made by students in their care.

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

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

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

#### HOUSING REGULATIONS FOR STUDENTS

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

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

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

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

1. A student may not change his place of residence during any one 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 after securing the approval of the housing committee.

#### REGULATIONS FOR WOMEN

##### *General Regulations*

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

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

3. Before leaving town for any College trip necessitating absences from class, students must ascertain from the deans of their divisions whether their scholastic standing will permit such absences.

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

##### *Special Academic Regulations*

#### 1. Regulations in the Division of Arts and Sciences.

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

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

#### 2. Regulations in the Division of Home Economics.

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

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

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

1. Women students will not be allowed to live in a house not on the official list except by special permission from the Dean of Women.
2. Social clubs maintaining halls of residence must make special arrangements in accordance with the regulations governing social clubs.
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. Non-resident students may not leave town without permission from the Dean of Women. Written requests for such permission must be sent to the Dean of Women by the parents.
6. Housemothers are expected to notify the Dean of Women when a student is called home suddenly.
7. Quiet hours shall be maintained every night after 7:30 during the long session and after 8:30 during the summer sessions except on Friday and Saturday nights, holidays, and nights preceding holidays. This rule applies to all women's rooming houses and dormitories.
8. Visiting hours are from 6:30 to 7:30 p. m. in the long session, and from 7:30 to 8:30 p. m. in the summer sessions. No visitors are permitted on Sunday until 4 p. m.
9. Upper-classmen who have been granted special privileges may entertain their guests in the halls of residence, but the quiet of the hall must be maintained.
10. No telephone calls except long distance calls are to be answered by students during quiet hours.
11. Permission to spend the week-end with friends in town will be granted only upon the written requests of parents sent directly to the Dean of Women.
12. Women students may have over-night guests only for week-ends. Before such guests are invited, arrangements must be made with the housemother. Students must fill out a visitor's card with the housemother and must be responsible for all charges. Guests must conform to the college regulations.
13. Students will be permitted to use automobiles when going back and forth from school and attending social affairs.
14. Before leaving the halls in the evening, women students are

expected to fill in the items requested on the "Data Sheet." All engagements are subject to the approval of the housemother.

### *Social Engagements*

1. Freshmen women may have only three dates a week—Friday, Saturday, and Sunday nights.

2. Sophomore and junior women maintaining a "B" average may have one additional date during the week.

3. For seniors maintaining a "B" average, no restrictions will be made as to the number of dates.

4. Sophomores, juniors, and seniors failing to maintain a "B" average will be expected to conform to the regulation of three dates each week, preferably week-end dates. Before any student may avail herself of the "B" average privilege, she must present to the housemother a card signed by the dean of her division stating that she has met the requirements.

5. Students are expected to be in their rooms by 11 p. m. on date nights except in the case of college dances. Women attending college dances are expected to be in by 12:30. During the week students are expected to be at home by 9:30 p. m.

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

7. 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 Affairs Committee.

8. Housemothers are requested to report at once to the Dean of Women all cases of illness and all infractions of rules.

### *Special Regulations for Freshman Women*

1. A student who has not completed the equivalent of thirty semester hours is regarded as a freshman.

2. Women of the freshman class will be required to live in the dormitories or halls designated by the Directors as halls of residence for freshman women. Freshman women working in homes for all of their room and board or residing with parents or guardians are excepted. Freshman women desiring to do light housekeeping will be placed in homes approved for light housekeeping. All arrangements must be made through the Office of the Dean of Women.

3. A deposit of \$5 is required with each request for a reservation; this amount will be applied to the first month's payment. Board and room must be paid in advance.

4. Students will be expected to furnish bed linen, towels, and table napkins.

## 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
A uniform breakage deposit, covering breakage in all laboratory courses, library fines and other charges for injury, loss, or destruction of State property.....	7.50
(The unused portion of this fee is returnable to the student after the end of the semester. Should the student's library fines, laboratory breakage, and other charges exceed this sum, an additional amount will be collected.)	
Medical service fee .....	2.25
Student activity fee .....	5.00

It will be seen that fees in Texas Technological College will be paid each four and one-half months, whereas they were formerly paid each three months.

If a student does not register within the specified time, September 21 to September 30, 1933, an additional service charge of \$2 may be 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.

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 student 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 herein above prescribed therefor, 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 institution.

Special course fees are charged for courses in typewriting and a special fee is required for rental of typewriter in such courses. 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

The tuition fees are payable upon registration and are not refunded except for urgent cause. In no case will a refund be made after ten days.



## FEES FOR SPECIAL COURSES

By permission of the institution, certain highly trained musicians are permitted to charge extra fees for individual lessons in music. Regular class lessons in music do not require extra fees. For private work the charges are as follows:

Voice	Miss Myrtle Dunn, per semester .....	\$54.00
	Mrs. Carl Scoggin, per semester .....	37.50
Piano	Miss Margaret Huff, per semester .....	45.00
	Mrs. E. F. George, per semester .....	45.00
	Miss Blanche Garner, per semester .....	45.00
	Miss Myrtle Dunn, per semester .....	54.00
	Mrs. Frances Viars Rix, per semester .....	54.00
Violin	Miss Beulah Dunn, per semester .....	45.00
	Mrs. Dorothy McDonald Knickerbocker, per semester .....	45.00

Prices quoted are for two lessons per week, and generally carry one semester hour college credit. Other arrangements should be made through the individual instructors.

## TEXT BOOKS AND SUPPLIES

As indicated elsewhere, text books, supplies, etc., may be purchased through the College Bookstore at necessary cost, plus handling charges. The Bookstore also handles second-hand books, thus giving an 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 administration of the institution to keep these costs as low as possible. The cost of text books and other supplies varies with the course pursued from as low as \$8.00 per year to as high as \$25.00 or \$30.00.

## BOARD AND ROOM

Board and room for men students may be secured generally at from \$17.50 to \$25.00 a calendar month. During the 1932-33 session a number of boys have been able to secure room and board for approximately \$15.00 a month by taking their meals at a cafeteria. Others have kept house and lived at from \$12.50 to \$15.00 a month.

Board and room for women students ranges from \$22.50 to \$30.00 a month. The cost for room with light housekeeping privileges ranges from \$5.00 to \$7.50 a month. The additional cost for supplies varies with the tastes of the individual; many students have found that the cost does not exceed \$15.00 a month.

## COOPERATIVE HOUSE FOR WOMEN STUDENTS

A Cooperative House for young women students sponsored by the Quarterly Club, a faculty women's organization, was successfully operated during the Spring term, 1933, at a cost of \$15.00 per person per month. The House will be open for the Fall semester registration. The House which will be open to students who find it necessary to reduce college expenses, will be operated at a cost of from \$12.50 to \$15.00 per student per month. For further information write to Mrs. Eleanor Chitwood, Assistant to the Dean of Women.

## MEDICAL SERVICE FOR STUDENTS

The Lubbock Sanitarium, 1301-1319 Broadway, in return for the \$2.25 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 provision 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.

## SCHOLARSHIPS AND PRIZES

High scholarship is the ideal of Texas Technological College. Every means is taken to promote higher scholarship. By decision of the Attorney General of the State, this institution is prohibited from offering free scholarships. All scholarships offered must be from funds.

paid to the institution for that purpose. Where fees are paid into the institution and a student has been awarded the scholarship, the income will be 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 on Scholarship Awards may on occasion originate nominations.

The following scholarships and prizes are available:

The Dr. M. C. Overton Scholarship of \$200.00 for the person who has been of the greatest value to the athletic teams in keeping up the morale, inculcating principles of fair play and square dealing, and arousing the spirit of honorable fighting on the field, awarded for 1932-33 to Albert Greer of Comanche, Texas.

The Standefer-Canon award for the highest grades among football letter men was awarded to Laurence Priddy of Gainesville, Texas, for 1932-33. The award is a permanent silver football plaque with name inscribed, to remain in the athletic office.

The cash award which amounted to \$30.00 this year, made by the Pan-Hellenic Society of Lubbock to the freshman student in the School of Home Economics making the highest grades in all of her work for the year, awarded for 1932-33 to Katherine Leidigh, Lubbock, Texas.

The silver loving cup awarded by the Double Key, the honorary society in the Division of Home Economics, to the sophomore Home Economics student having the highest standing for the year 1932-33 in the qualities of scholarship and leadership, awarded to Emily Davis, Lubbock, Texas.

#### 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.

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

*The 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.

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

*The Rotary Loan Fund.*—Members of the Rotary Club of Lubbock have contributed to this fund, the principal of which now amounts to approximately \$7,000.00. The fund is available in small amounts to students who have attended the College a year or more and demonstrated their worthiness and ability.

*The Twentieth Century Club Loan Fund.*—This fund was originated in 1925, \$200.00 being raised the first year by an assessment of \$5.00 per member. Six students have borrowed from this fund, which amounts to \$415.00. The interest rate is four per cent and loans are made to either men or women.

*The Home Economics Club Loan Fund.*—This fund was established during the first year of the College by the Home Economics Club of the College. This organization holds a sale about Thanksgiving time each year. 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.

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

*The Engineering Society Loan Fund.*—The Engineering Society

maintains a small loan fund which is available to advanced engineering students.

*The 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 \$15.00 and do not extend beyond the end of the current semester.

## STUDENT EMPLOYMENT

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

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

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

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

## FOR YOUNG WOMEN

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

## FOR YOUNG MEN

Electrician	College dairy
Assistant librarian	Waiter
Assistant in Physics Department	Carpenter work
Textile Engineering assistant	Florist
Chemistry assistant	Farm work
Stenographer	Garage work
Office work	Painter
Motion picture operator	Janitor
House work	Clerk
Photographer	Tailor
Bakery and confectionery	Chauffeur
Draftsman	Railroad employe
Musician	Newspaper work
Laundry agent	Radio expert
Salesman	City employe
Seed analyst	Bottling works
Cleaning and pressing agent	Soda dispenser
Collector	Telephone exchange
Meat Cutter	

## 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 cooperate with the institutional 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 institution itself and constitutes the principal means of keeping the student body, faculty, and friends of the institution informed regarding the weekly news of the institution.

"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.

### DIRECTORY

A student directory is published by the institution 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. Courses in Bible and other religious education are given in the College for college credit.

## MUSICAL ORGANIZATIONS

## BAND

The College Band is one of the important musical organizations of the institution. There are approximately sixty to seventy members of the Band under the direction of a trained leader. Periods for Band practice are fixed as a part of the schedule. The Band plays at all games and many other College affairs and is in great demand as a musical organization.

## ORCHESTRA

The Department of Music promotes a College Orchestra which furnishes much valuable training in orchestra music and contributes greatly to the enjoyment of the various programs at the institution.

## GLEE CLUB

Glee Clubs for women and men are organized at the institution. These produce one oratorio each year, and other works.

## CHORAL CLUB

The Music Department also promotes a Choral Club, consisting of mixed voices.

Registration in all of these musical clubs should be arranged by the student who wishes to become a member.

## ARTIST COURSE

The Artist Course is a series of high-class attractions sponsored by the College and offered to the student body at a minimum cost.

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, Cherniavsky Trio, Count Ilya Tolstoy, Cyrena van Gordon and the Ben Greet Players 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 also 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 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 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 financial 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:

#### LITERARY AND SOCIAL CLUBS

The Alpha Psi Omega, and the Sock and Buskin Club are active in connection with dramatic amateur plays and interpretive work.

The P. S. Q. R. and the Capa y Espada are literary and social clubs which aim to promote interest in foreign language and the classics. The Association of Women Students, Las Leales, and the Forum have the interest of the women students as their object. The Women's Athletic Association, which is open to women students, sponsors the athletic activities among the women. The Chamber of Commerce is an organization among young men for the good of the institution.

#### DEPARTMENTAL AND SCIENTIFIC CLUBS

The Agricultural Club, the Architectural Society, student branches of the A. S. M. E., A. S. C. E., and A. I. E. E., the Block and Bridle Club, the Chemical Society, the Debate Club, the Engineering Society, the Geological Society, the Home Economics Club, the Math Club, the Phi Psi Fraternity (Kappa chapter), the Pi Gamma Mu, the Southern Scholarship Society, the Pre-Law Club, and the Pre-Med. Club, are more especially honor, school, or departmental organizations which have to do with work in the lines indicated by their names. These organizations promote such professional, departmental, and scientific interest as is indicated by their name or association. They serve the purpose of bringing together those whose interests are in common. Their work is mainly 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 always a demand for 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 positions:

Farmers and farm managers; marketing agents; managers of co-operative associations; teachers in colleges, academies, and high schools; extension experts in agricultural colleges, railroad and land companies; dairy and creamery experts or operators; milk distributors; government and experiment station lines of research work; horticultural experts; poultry experts; feed inspecting; 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.

## TEACHERS CERTIFICATES

Teachers certificates may be secured by students in Texas Technological College. In the Division of Agriculture, part of the requirements are met by the curricula and part may be met by electives. In some cases extra courses may need to be taken. For complete information see *Department of Education and Psychology* in another part of this catalogue. 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 aid. Persons interested should communicate with the head of the *Department of Education and Psychology* concerning the special requirements for securing these certificates.

## INSTRUCTION BY CORRESPONDENCE

A limited number of subjects in the agricultural curricula are open for full or partial credit by correspondence. The general management of such instruction is treated in detail in another part of this catalogue under the *Department of Extension*. In those cases where the student may carry out the experiments and practice away from the College, the

laboratory material and supplies are to be provided at the student's expense and can usually be secured from the department concerned. Such laboratory expenses are in addition to the correspondence fee. 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" in another part of this catalogue.

#### REQUIREMENTS FOR GRADUATION

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

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.

In the junior and senior years electives are permitted in the student's curriculum. The elective requirements are approved by the department

head of the department in which the major is taken, subject to the approval of the agricultural faculty.

The four-year curricula leading to the degree of bachelor of science 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 in addition they 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. Substitutions 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
<b>Freshman Year</b>		
✓ 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
<b>Sophomore Year</b>		
✓ A. E. 233x. Economics, Principles, and Theory -----	3	--
✓ A. E. 231x. 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	--
✓ Speech 131x. Fundamentals of Speech -----	--	3
✓ Agron. 221x. Soils -----	2	--
✓ Hort. 231x. Vegetable Gardening -----	--	3
✓ A. H. 221x. Breeds of Livestock -----	--	2
✓ P. E. 213x-4x or M. S. 213x-4x. Physical Education or Military Science -----	1	1
	18	18
<b>Junior Year</b>		
✓ A. E. 321x. Cooperation in Agriculture -----	2	--
✓ A. E. 325x. Farm Records and Accounts -----	--	2
✓ A. E. 331x. Statistical Problems -----	3	--
✓ A. E. 422x. Prices and Forecasting -----	--	2
✓ A. H. 331x. Animal Nutrition and Principles of Feeding -----	3	--
✓ Agron. 331x. Forage and Pasture Crops -----	3	--
✓ Hort. 341x. Principles of Genetics -----	--	4
✓ Eng. Draw. 223x. Agricultural Drawing -----	--	2
Electives from Group I below -----	3	4
Electives from Group II below -----	3	3
	17	17
<b>Senior Year</b>		
✓ G. A. 411x. Agricultural Lectures -----	1	--
✓ A. E. 322x. Marketing Agricultural Products -----	--	2
✓ A. E. 411x-2x. Agricultural Economics Seminar -----	1	1
✓ A. E. 421x. Land Economics -----	2	--
✓ A. E. 423x. Farm Management -----	2	--
✓ Rural Soc. 422x. Methods of Research and Extension -----	2	--
✓ Rural Soc. 421x. Rural Sociology -----	--	2
Electives from Group I below -----	3	5
Electives from Group II below -----	6	6
	17	16

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.

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 A. E. 361x may be so elected.

\* Given in alternate years; given in 1933-34.

\*\* Given in alternate years; not given in 1933-34.



## CURRICULUM IN ANIMAL HUSBANDRY

		Semester Hours	
		Sem. I	Sem. II
<b>Freshman Year</b>			
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
<b>Sophomore Year</b>			
A. H. 221x.	Breeds of Livestock	--	2
Agron. 221x.	Soils	2	--
Hort. 231x.	Vegetable Gardening	--	3
A. E. 233x.	Economics, Principles, and Theory	3	--
A. E. 231x.	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	--
Speech 131x.	Fundamentals of Speech	--	3
P. E. 213x-4x or M. S. 213x-4x.	Physical Education or Military Science	1	1
		18	18
<b>Junior Year</b>			
A. H. 321x.	Advanced Livestock Judging	2	--
A. H. 322x.	Farm Meats	2	--
A. H. 331x.	Animal Nutrition and 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
A. E. 325x.	Farm Records and Accounts	--	2
A. E. 331x.	Statistical Problems	3	--
Departmental electives from the following list		--	5
A. H. 323x. Dairy Cattle			
*A. H. 432x. Horse Production			
P. H. 331x. Incubation and Brooding			
Electives		2	2
		18	16
<b>Senior Year</b>			
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. 220x.	American Government, National and State	2	--
Departmental electives from the following list		5 or 6	6
A. H. 421x. Purebred Herds and Flocks			
A. H. 431. Beef 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

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.

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 Animal Husbandry.

\*Given in alternate years; given in 1933-34.

\*\*Given in alternate years; not given in 1933-34.

## CURRICULUM IN DAIRY MANUFACTURES

Semester Hour  
Sem. I Sem. I

## Freshman Year

D. M. 131x.	Principles of Dairy Manufacturing	3	--
P. H. 131x.	Farm Poultry	3	3
Hort. 131x.	Plant Propagation	3	3
3 Agron. 131x.	The Fundamentals of Crop Production	2	2
A. H. 121x.	Types and Market Classes of Cattle and Sheep	2	2
A. H. 122x.	Types and Market Classes of Hogs, Horses and Mules	3	3
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

Bact. 231x.	Bacteriology	--	3
Chem. 341x.	Organic Chemistry	4	--
Chem. 220x.	Qualitative Analysis	--	--
A. E. 233x.	Economics, Principles, and Theory	3	--
3 A.E. 231x.	Principles of Agricultural Marketing	--	3
A. H. 221x.	Breeds of Livestock	--	2
3 Agron. 221x.	Soils	2	--
Hort. 231x.	Vegetable Gardening	--	3
3 Math. 231x-2x.	Mathematics for Students of Agriculture	3	3
Eng. 234x.	Special Work on Correct Usage	3	--
3 Speech 131x.	Fundamentals of Speech	--	3
3 P. E. 213x-4x	or M. S. 213x-4x. Physical Education or Military Science	1	1
1/2 Soc. 221		18	18

## Junior Year

D. M. 221x.	Judging 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	--
Hort. 341x.	Principles of Genetics	--	4
Electives from either Group A, B, or C below		4	5
		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	--	2
*D. M. 431x.	Cheese Making	3	--
*D. M. 433x.	Ice Cream Making	--	3
*D. M. 441x.	Butter Making	4	--
Electives from either Group A, B, or C below		7	8
		17	16

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.

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.

\*Given in alternate years; given in 1933-34.

\*\*Given in alternate years; not given in 1933-34.

## CURRICULUM IN PLANT INDUSTRY

## Agronomy Option

	Semester Hours	
	Sem. I	Sem. II
<b>Freshman Year</b>		
Bot. 131x-2x. General Botany	3	3
Hort. 131x. Plant Propagation	3	3
Agron. 131x. The Fundamentals of Crop Production	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	2
A. H. 122x. Types and Market Classes of Hogs, Horses and Mules	3	3
D. M. 131x. Principles of Dairy Manufacturing	3	3
P. H. 131x. Farm Poultry	1	1
G. A. 111x. Orientation for Agricultural Students	1	1
P. E. 113x-4x. or M. S. 113x-4x. Physical Education or Military Science	1	1
	19	18
<b>Sophomore Year</b>		
Agron. 221x. Soils	2	2
Hort. 231x. Vegetable Gardening	3	3
Chem. 341x. Organic Chemistry	4	4
Chem. 220x. Qualitative Analysis	2	2
Bact. 231x. Bacteriology	3	3
Math. 231x-2x. Mathematics for Students of Agriculture	3	3
Eng. 234x. Special Work on Correct Usage	3	3
Speech 131x. Fundamentals of Speech	3	3
A. E. 233x. Economics, Principles, and Theory	3	3
A. E. 231x. Principles of Agricultural Marketing	3	3
A. H. 221x. Breeds of Livestock	2	2
P. E. 213x-4x. or M. S. 213x-4x. Physical Education or Military Science	1	1
	18	18
<b>Junior Year</b>		
Agron. 331x. Forage and Pasture Crops	3	3
*Agron. 433x. Advanced Crop Judging and Grain Grading	3	3
*Hort. 333x. Fruit Culture	3	3
Hort. 341x. Principles of Genetics	4	4
*P. I. 322x. Control of Insects and Diseases	2	2
T. E. 311x. Cotton Grading and Classing	1	1
A. E. 325x. Farm Records and Accounts	2	2
A. E. 331x. Statistical Problems	3	3
A. H. 331x. Animal Nutrition and Principles of Feeding	3	3
Eng. Draw. 223x. Agricultural Drawing	2	2
Electives	5	3
	17	17
<b>Senior Year</b>		
**Agron. 333x. Grain Crops	3	3
**Agron. 421x. Cotton and Other Fiber Crops	2	2
Agron. 431x-2x. Soil Management	3	3
*P. I. 321x. Plant Insects and Diseases	2	2
P. I. 411x. Plant Industry Seminar	1	1
P. I. 431x. Advanced Plant Breeding and Improvement	3	3
G. A. 411x. Agricultural Lectures	1	1
A. E. 423x. Farm Management	2	2
Govt. 220x. American Government, National and State	7	4
Electives	7	4
	17	16

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.

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.

\*Given in alternate years; given in 1933-34.

\*\*Given in alternate years; not given in 1933-34.

## CURRICULUM IN PLANT INDUSTRY

## Horticulture Option

	Semester Hours	
	Sem. I	Sem. II
<b>Freshman Year</b>		
Bot. 131x-2x. General Botany .....	3	8
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
<b>Sophomore Year</b>		
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	---
Speech 131x. Fundamentals of Speech .....	---	3
A. E. 233x. Economics, Principles, and Theory .....	3	---
A. E. 231x. Principles of Agricultural Marketing .....	---	3
A. H. 221x. Breeds of Livestock .....	---	2
P. E. 213x-4x or M. S. 213x-4x. Physical Education or Military Science .....	1	1
	18	18
<b>Junior Year</b>		
*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	---
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	6
	18	17
<b>Senior Year</b>		
**Hort. 431x-2x. Advanced Pomology .....	3	3
Agron. 431x-2x. Soil Management .....	3	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	---
A. E. 423x. Farm Management .....	2	---
Govt. 220x. American Government, National and State .....	2	---
Departmental electives from the following list .....	3	3
**Hort. 334x-5x. Principles of Floriculture .....		
**Hort. 433x. Systematic Pomology .....		
Electives .....	3	---
	17	15

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.

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.

\*Given in alternate years; given in 1933-34.

\*\*Given in alternate years; not given in 1933-34.

DEPARTMENT OF AGRICULTURAL ECONOMICS,  
FARM MANAGEMENT, AND RURAL SOCIOLOGY

President Knapp. Professors Ellsworth, Leidigh

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

- x  
231x-2x. *Economics, Principles, and Theory*. Cr. 3 (3-0). Sems. I and II. Prerequisite: Sophomore standing. Analysis of fundamental economic theory and principals 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. *Economics, Principles, and Theory*. Cr. 3 (3-0). Each, 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. Study of 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 (2-3). 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; given in 1933-34.
- 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 adapter 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; not given in 1933-34.
- 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 adaptation of various methods of farm bookkeeping and accounting.
- 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.
361. *Field Problems in Agricultural Economics*. Cr. 6 (0-6). 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 the 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. Ten or more students required to make trip.
- 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; not given in 1933-34.

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; given in 1933-34.

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 towns.

#### 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; given in 1933-34.

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; not given 1933-34.

421x. *Methods of Research and Extension*. Cr. 2 (2-0). Sem. I. Prerequisite: Junior or senior standing. A study of 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. A study of rural institutions and how such may be utilized to improve standards of living of rural people. Attention will be given to the interrelation of rural and urban interests. Taught by Dean Leidigh.

## 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 agricultural 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, 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). A brief survey of 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). A brief survey of 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.

- Y  
221x. *Breeds of Livestock*. Cr. 2 (2-0). Sems. I and II. (Formerly 232). Prerequisite: A. H. 121x and 122x. The development of the breeds of farm animals. Special emphasis upon 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, and 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. I. (Formerly 436). Prerequisite: A. H. 121x and 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.
331. *Animal Nutrition and Principles of Feeding*. Cr. 3 (2-3). Sem. I. (Formerly 341). Prerequisite: A. H. 121x, 122x, and organic chemistry. Chemical composition of plants and animals. Digestion and metabolism. Digestibility, energy, and manurial value of feeds. Feeding standards and feeds. Feed requirements and calculating 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. Inves-

tigations 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 (2-3). Sem. I. (Formerly 431). Prerequisite: A. H. 331x. The beef cattle industry. Breeding, feeding, and marketing. Purebred herd and range management. Cattle ranching. Fitting for show and showing. Disease control.
- 432x. *Horse Production*. Cr. 3 (2-3). 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. Given in alternate years; given in 1933-34.
- 433x. *Sheep Production*. Cr. 3 (2-3). Sem. II. (Formerly 433). Prerequisite: A. H. 331x. The sheep industry. Adaptation 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 (2-3). Sem. II. (Formerly 434). Prerequisite: A. H. 331x. The swine industry. Breeding, feeding, housing, marketing. Fitting for show and showing. Diseases, parasites, and sanitation.
435. *Dairy Cattle Production*. Cr. 3 (2-3). Sem. I. (Formerly 435). Prerequisite: A. H. 323x and 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.

#### POULTRY HUSBANDRY

- 131x. *Farm Poultry*. Cr. 3 (2-3). 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, 331x, 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. Given in alternate years; not given in 1933-34.

## 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 (2-3). Sem. II. (Formerly Vet. 333). The common infectious and non-infectious diseases. Common external and internal parasites. Prevention, treatment, and sanitation.

## DEPARTMENT OF DAIRY MANUFACTURES

Professor Renner. Instructor Pederson.

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 agricultural 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). Sems. I and II. (Formerly 131). A general survey of the field of dairy-

ing, composition of milk, milk analysis, manufacture of farm dairy products, separators, milking machines. Required of all agricultural students.

221x. *Judging Dairy Products*. Cr. 2 (1-2). Sems. I and II. (Formerly 321). Commercial grades and classifications of dairy products. Practice in judging milk, butter, cheese, and ice cream. Student contests.

321x. *Technical Control of Dairy Products*. Cr. 2 (1-1). 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. Given in alternate years; not given in 1933-34.\*

322x. *Dairy Plant Equipment*. Cr. 2 (2-0). Sem. I. (Formerly 337). Prerequisite: General physics. Equipment used in the dairy. Emphasis on steam boilers, refrigeration, motors, exhaust steam, insulation, steam and water fittings, plumbing, sewage disposal. Required of dairy manufactures majors. Given in alternate years; not given in 1933-34.

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, one semester general bacteriology. 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 and general bacteriology. Types of bacteria present in milk and milk products. Methods of control. Required of dairy manufactures majors. Given in alternate years; not given in 1933-34.

411x. *Dairy Manufactures Seminar*. Cr. 1 (1-0). Sem. II. (Formerly 411). Prerequisite: Senior standing in dairy manufactures.

---

\*Courses offered in alternate years will be given each year if there is sufficient demand.

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. Required of dairy manufactures majors. Given in alternate years; given in 1933-34.
- 422x. *Dairy Technology*. Cr. 2 (2-0). Sem. II. (Formerly 440). Prerequisite: D. M. 131x, general bacteriology, organic chemistry. The manufacture of condensed milk and milk powder, malted milk, milk casein, commercial buttermilk and whey. Supplemented by field trips. Required of dairy manufactures majors. Given in alternate years; given in 1933-34.
- 431x. *Cheese Making*. Cr. 3 (2-3). Sem. I. (Formerly 333). Prerequisite: D. M. 131x, general bacteriology, organic chemistry. Classification of foreign and domestic varieties of plain and fancy cheese. Manufacture of soft cheeses and the more common varieties of semi-hard and hard cheeses. Required of dairy manufacturing majors. Given in alternate years; given in 1933-34.
- 432x. *Dairy Manufacturing Problems*. Cr. 3 (1-6). Sem. II. (Formerly 439). Prerequisite: Senior or graduate standing. A scientific study of special phases of the dairy manufacturing industry.
- 433x. *Ice Cream Making*. Cr. 3 (2-3). Sem. II. (Formerly 436-7). Prerequisite: D. M. 121x, bacteriology, organic chemistry. History and development of the ice cream industry, ice cream ingredients, standardization, and calculation of mixes, processing, cost studies. Supplemented by field trips. Required of dairy manufactures majors. Given in alternate years; given in 1933-34.
- 441x. *Butter Making*. Cr. 4 (2-6). Sem. I. (Formerly 433-4). Prerequisite: D. M. 121x, bacteriology, organic chemistry. History of the butter industry, manufacture of sweet and sour cream butter, neutralization, cream refining, butter defects. Actual plant practice in the manufacture of butter. Required of dairy manufactures majors. Given in alternate years; given in 1933-34.

## DEPARTMENT OF PLANT INDUSTRY

Professors Leidigh, Russell. Associate Professor Woodbury.

Assistant Professor Bell.

The Department of Plant Industry offers work in horticulture, agronomy, 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.

The classes are offered field trips as a part of their instruction, and since the College is located in a highly developed and productive region, these trips are of great assistance to the student.

## PLANT INDUSTRY

321x. *Plant Insects and Diseases*. Cr. 2 (2-0). Sem. II. (Formerly G. A. 339). Prerequisite: Junior standing in Agriculture. A study of the most important fruit, vegetable, and crop insects and diseases. Given in alternate years; not given in 1933-34.

- 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; given in 1933-34.
- 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. 341 and two advanced courses in the department. Practical application 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. A study of 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 1933-34.

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; given in 1933-34.

333x. *Fruit Culture*. Cr. 3 (2-3). Sem. II. (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; given in 1933-34.

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; not given in 1933-34.

336x-7x. *Landscape Design*. Cr. 3 (1-6). Sems. I and II. (Formerly Hort. 3311-12-13). Prerequisite: Draw. 124x, Arch. 123x, 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 agricultural students, Bot. 131x-2x, Ag. Eco. 334x; for non-agricultural students, Math. 131x. A study of 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-agricultural students.

421x. *Citriculture*. Cr. 2 (2-0). Sem. I. (Formerly Hort. 434). Prerequisite: Registration in Hort. 333x, junior standing. Commercial production of citrus fruits, adaptation, soil requirements, temperature, orchard heating, and irrigation. Given in alternate years; given in 1933-34.

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; not given in 1933-34.

433. *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 adaptation. Practice in describing and identifying varieties of fruits. Given in alternate years; not given in 1933-34.

## AGRONOMY

- 131x. *The Fundamentals of Crop Production*. Cr. 3 (2-3). Sems. I and II. (Formerly Agron. 131). Prerequisite: Hort. 131x. A survey of 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 relations. Organic matter, moisture, productiveness, adaptation 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. Adaptation, identification, and general improvement. Given in alternate years; not given in 1933-34.
- 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; not given in 1933-34.
- 431x-2x. *Soil Management*. Cr. 3 (3-0, Sem. I) (2-3, Sem. II). Sems. I and II. (Formerly Agron. 433, 434, 435, and 436). Prerequisite: Agron. 221x, 331x. Advanced study of soil conditions and plant growth. The nature and sources of plant nutrients, their liberation and conservation. Soil moisture conservation, run-off prevention, control of soil erosion, terracing, irrigation. 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; given in 1933-34.

#### GENERAL AGRICULTURE

- 111x. *Orientation for Agricultural Students*. Cr. 1 (2-0). Sems. I and II. (Formerly 101-2-3). A survey of the field of Agriculture. A consideration of the relationship of the student to the college, habits of study, health, and vocational guidance. Orientation lectures. Lectures by the dean and various faculty members. Required of all freshmen students in the Division of Agriculture. This course 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. A brief consideration of the broad fundamental relationship of farmers and their co-workers with each other and with agricultural and other commodities. Lectures on professional ethics and attitudes. Papers and much work with references.

## 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 science and art of applying economically the laws, forces and materials of nature for the use, convenience and enjoyment 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:

Architecture	Mechanical Engineering
Architectural Engineering	Mechanical Engineering Administrative Option
Chemical Engineering	Textiles, Chemistry Option
Civil Engineering	Textiles, Fabric Design Option
Electrical Engineering	Textiles, Engineering Option.
Geological Engineering	

Each of the above leads to the Degree of Bachelor of Science in its respective field. A curriculum leading to the Degree of Bachelor

of Commercial Art is also offered in the Department of Architecture and Allied Arts.

#### 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. For a number of years the demand made by the industries for engineering graduates considerably exceeded the supply.

Engineering training is recognized more and more as desirable preparation for a general commercial career, since many engineering graduates eventually hold important 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.

Emphasis is placed upon 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.

During the fall of 1926 a temporary building of hollow tile construction, 50x100 feet, was erected to house the pattern-making shop, machine shop, and an elementary mechanical engineering laboratory.

The first unit of the main Engineering Building was built during the school year of 1927-28 and was ready for use at the opening of the 1928-29 session. 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 Architectural, Civil, Electrical, and Mechanical Engineering, and Engineering Drawing.

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 Engineering students, except those in the Department of Architecture, are required to take identical work throughout the freshman year. This is done in order that the student, before choosing his professional course, 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 on work to remove a deficiency in grade points until the student has substantially completed his required curriculum. This approval may not be retroactive.

## CURRICULA FOR ENGINEERING STUDENTS

## 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	3
*Eng. Draw. 134x. Graphic Arts .....	2	—
Arch. 125x. Shades and Shadows .....	—	2
Arch. 126x. Perspective .....	—	2
Eng. Drawing. 222x. Descriptive Geometry .....	3	3
Arch. 131x-2x. Elements of Architecture .....	2	2
Arch. 121x-2x. Freehand Drawing .....	1	—
Eng. Or. 111x. Engineering Orientation .....	—	—
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 I .....	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. 226x-7x. Building Construction .....	2	2
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. 221x-2x. 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. 220x. 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	2
**Arch. 435x-6x. Advanced Architectural Construction .....	3	3
Arch. 420x. Professional Practice .....	2	—
	19	17

\*Courses to be offered in 1934-35.

\*\*Courses to be offered in 1935-36.

## CURRICULUM IN ARCHITECTURAL ENGINEERING

	Semester Hours	
	Sem. I	Sem. II
Freshman Year		
Eng. 131x-2x. Freshman Composition .....	5	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 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
C. E. 233x. Applied Mechanics—Statics .....	—	3
Arch. 131x-2x. Elements of Architecture .....	3	3
Arch. 222x-3x. History of Architecture .....	2	2
Arch. 220x-1x. Principles of Drawing and Painting and Theory of Design .....	2	2
Arch. 126x. Perspective .....	—	2
P. E. 213x-4x or M. S. 213x-4x. Physical Education or Military Science .....	1	1
	19	19

## Junior Year

Chem. 135x-6x. 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. 331x. Structures .....	—	3
M. E. 334x. Thermodynamics and Heat Engines .....	3	—
Arch. 322x-3x. History of Architecture .....	2	2
Arch. 227x-8x. 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
C. E. 433x. Structures .....	3	—
C. E. 431x-2x. Reinforced Concrete .....	3	3
C. E. 220x. Surveying .....	2	—
Govt. 220x. American Government, National and State .....	2	—
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

\*Courses to be offered in 1934-35.

†Must include Eco. 231x-2x.

## CURRICULUM IN COMMERCIAL ART

	Semester Hours	
	Sem. I	Sem. II
Freshman Year		
Eng. 131x-2x. Freshman Composition -----	3	3
Foreign Language—(French or German) -----	3	3
Math. 121x-2x. College Algebra -----	2	2
Eng. Draw. 134x. Graphic Arts -----	3	—
Eng. Draw. 135x. The Elements of Lettering -----	—	3
Arch. 125x. Shades and Shadows -----	2	2
Eng. Draw. 222x. Descriptive Geometry -----	2	2
Arch. 123x-4x. Elements of Composition -----	2	2
Arch. 121x-2x. Freehand Drawing -----	1	—
Eng. Or. 111x. Engineering Orientation -----	1	—
P. E. 113x-4x or M. S. 113x-4x. Physical Education or Military Science -----	1	1
	19	18
Sophomore Year		
Eng. 233x. Technical Writing -----	3	—
Speech 131x. Fundamentals of Speech -----	—	3
Foreign Language—(French or German) -----	3	3
Arch. 126x. Perspective -----	2	2
Arch. 328x-9x. General History of Architecture -----	—	2
Arch. 220x-1x. Principles of Drawing and Painting, and Theory of Design -----	2	2
Arch. 131x-2x. Elements of Architecture -----	3	3
*Arch. 229x-2210x. 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		
Psych. 230x. Introduction to Psychology -----	3	—
Psych. 236x. Business Psychology -----	—	3
Govt. 220x. American Government, National and State -----	—	2
*Arch. 321x. History of Early Civilization and Art -----	2	—
*Arch. 324x. History of Sculpture -----	—	2
Arch. 224x. Pencil Rendering and Sketching -----	2	—
Arch. 225x. 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 to 5 hours -----	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
Arch. 420x. Professional Practice -----	2	—
B. A. 432x. Advertising -----	3	—
B. A. 332x. Marketing -----	—	3
	18	16

\*Courses to be offered in 1934-35.

\*\*Courses to be offered in 1935-36.



## UNIFORM FRESHMAN YEAR FOR ENGINEERING STUDENTS

To be used in connection with curricula in Civil, Chemical, 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. Plane Trigonometry .....	3	—
Math. 132x. Analytic Geometry .....	—	3
Physics 133x-4x. Freshman Engineering Physics .....	3	3
Eng. Draw. 132x-3x. Engineering Drawing .....	3	3
Eng. 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 CIVIL ENGINEERING

	Semester Hours	
	Sem. I	Sem. II
<b>Sophomore Year</b>		
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. 233x. 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. 331x. 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. General Bacteriology .....	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. Specifications .....	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. 323x-4x. Elements of Electrical Engineering .....	2	2
E. E. 311x-2x. Electrical Engineering Laboratory .....	1	1
Govt. 220x. American Government—National and State .....	2	—
	17	18

## CURRICULUM IN ELECTRICAL ENGINEERING

For freshman year see page 99.

Semester Hours  
Sem. I Sem. II

## Sophomore Year

Eng. 233x. Technical Writing	3	2
Chem. 220x. Qualitative Analysis	5	3
Math. 251x. Differential and Integral Calculus	3	3
Math. 233x. Applications of the Calculus	2	2
Phys. 231x-2x. Sophomore Physics	1	3
Engr. Dwg. 221x. Machine Drawing	2	1
Engr. Dwg. 222x. Descriptive Geometry	2	3
E. E. 230x. Principles of Electrical Engineering	1	1
M. E. 311x. Pattern Shop	2	3
M. E. 312x. Foundry	2	3
M. E. 221x. Engineering Problems	3	1
C. E. 233x. Applied Mechanics—Statics	3	1
Speech 131x. Fundamentals of Speech	1	1
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	3
C. E. 333x. Applied Mechanics—Strength of Materials	3	3
M. E. 334x-5x. Thermodynamics and Heat Engineering	1	1
M. E. 317x-8x. Heat Engineering Laboratory	1	1
M. E. 313x-4x. Machine Shop	2	2
Chem. 322x. Power Plant Chemistry	2	3
Math. 321x. Differential Equations	3	3
Eco. 231x2x. Principles of Economics	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	3	3
E. E. 433x. Transmission	1	1
E. E. 434. Communication	2	2
E. E. 410x. Current Electrical Engineering	2	2
C. E. 310x. Testing Laboratory	2	2
C. E. 420x. Hydraulics	2	2
C. E. 220x. Elementary Surveying	2	2
M. E. 333x. Kinematics of Machinery	2	2
Phys. 423x4x. Electrical Measurements	2	2
Govt. 220x. American Government, National and State	17	18

## CURRICULUM IN MECHANICAL ENGINEERING

For freshman year see page 99.

Semester Hours  
Sem. I Sem. II

## 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. 233x. 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. 333x-4x. Elements of Electrical Engineering	3	3
E. E. 311x-2x. 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. 220x. American Government, National and State	--	2
	18	16

# CURRICULUM IN MECHANICAL ENGINEERING, ADMINISTRATIVE OPTION

For freshman year see page 99.

Semester Hours  
Sem. I Sem. II

## 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	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. 233x. 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. 334x-5x. Thermodynamics and Heat Engineering .....	3	3
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. 434x. Industrial Engineering .....	--	3
M. E. 241x. Mechanisms .....	--	4
B. A. 334x-5x. Business Law .....	3	3
Elective .....	3	--
	19	17

## Senior Year

M. E. 433x. Heating and Ventilation .....	3	--
M. E. 432x. Power Plant Design .....	--	3
M. E. 337x. Metallurgy .....	--	3
M. E. 322x. Dynamics .....	--	2
C. E. 310x. Testing Laboratory .....	--	1
E. E. 333x-4x. Elements of Electrical Engineering .....	3	3
E. E. 311x-2x. Electrical Engineering Laboratory .....	1	1
Electives .....	10	3
	17	16

Electives to be chosen from the following:

B. A. 332x, 333x, 433x, 435x, 436x, Eco. 332x, M. E. 441x and Chem. 322x.

## CURRICULUM IN TEXTILES, CHEMISTRY OPTION

For freshman year see page 99.

Semester Hours  
Sem. I Sem. II

## Sophomore Year

Chem. 220. Qualitative Analysis -----	2	--
Phys. 231x-2x. Sophomore Physics -----	3	3
Eng. 233x. Technical Writing -----	3	--
Math. 251x. 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. Textiles -----	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. Economics, Principles and Theory -----	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 -----	--	2
Chem. 422x. Colloid Chemistry -----	2	--
Govt. 220x. 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 OPTION

For freshman year see page 99.

Semester Hours  
Sem. I Sem. II

## Sophomore Year

Phys. 231x2x. 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. Economics, Principles and Theory.....	3	3
M. E. 313x. Machine Shop.....	—	1
M. E. 221x. Engineering Problems.....	2	—
C. E. 233x. Applied Mechanics—Statics.....	—	3
T. E. 221x-2x. Textile Fibers and Yarn Manufacturing.....	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. 333x-4x. Electrical Engineering.....	3	3
E. E. 311x-2x. 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 Management.....	—	3
Govt. 220x. 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

For freshman year see page 99.

	Semester Hours	
	Sem. I	Sem. II
<b>Sophomore Year</b>		
Physics, 231x-2x. Sophomore Physics .....	3	3
Arch. 328x-9x. 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. Textiles .....	2	2
Arch. 121x-2x. Freehand Drawing .....	2	2
Arch. 126x. 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

<b>Junior Year</b>		
Chem. 343x-4x. Organic Chemistry .....	4	4
Arch. 220x-1x. Principles of Drawing and Painting, and Theory of Design.....	2	2
Arch. 224x. Pencil Rendering and Sketching .....	2	--
Arch. 225x. Pen and Ink .....	--	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. 220x. American Government, National and State.....	--	2
	19	19

<b>Senior Year</b>		
Ag. Eco. 231x-2x. Economics. Principles and Theory .....	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

## DEPARTMENT OF ARCHITECTURE AND ALLIED ARTS

Professor Kleinschmidt. Associate Professor  
Shelton. Instructor Houghton.

The Department of Architecture and Allied Arts offers courses leading to a Bachelor of Science Degree in Architecture and in Architectural Engineering, and a Degree of 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. Since everything must be developed in a drawing room before it can be constructed in workshop or field, there exists today a great demand for well trained men and women in the sale and production of well made and well designed things.

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 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-around understanding of architecture and which are required for 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. 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. This year (1933) the gift of a \$5,000 set of art teaching equipment from the Carnegie Corporation to Texas Technological College will, with the equipment the department already possesses, 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.

- 126x. *Perspective*. Cr. 2 (0-6). Sem. II. (Formerly 132). Prerequisite: Engineering Drawing 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.
- 131x-2x. *Elements of Architecture*. Cr. 3 (1-8). Sems. I and II. (Formerly 133-4-5). 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.
- 220x-1x. *Principles of Drawing and Painting, and Theory of Design*. Cr. 2 (1-5). Sems. I and II. (Formerly 2210, 224-5). 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.
- 224x. *Pencil Rendering and Sketching*. Cr. 2 (0-6). Sems. I and II. (Formerly 2210-11-12). Prerequisite: Arch. 220x. Drawing of architectural ornaments, architectural fragments and pencil sketches from life and nature. Required of students in Commercial Art, and Textile Design.
- 225x. *Pen and Ink Rendering*. Cr. 2 (0-6). Sem. II. (Formerly 2313-14-15). Prerequisite: Arch. 224x. Pen and ink technique, studies from plaster casts, still life, and nature. Required of students in Commercial Art, and Textile Design.
- 226x-7x. *Building Construction*. Cr. 2 (0-6). Sems. I and II. (Formerly 237-8). Prerequisite: Engineering Drawing 132x or Engineering Drawing 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.
- 231x-2x. *Architectural Design, Grade I*. Cr. 3 (0-9). Sems. I and II. (Formerly 234-5, 246). Prerequisite: Arch. 133x-4x. Long and short problems under individual criticism dealing in gen-

- eral with the elements of plan and elevation. Sketch problems dealing with composition. Required of students in Architecture and Architectural Engineering.
- 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; not given in 1933-34.
- 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). Sems. I and 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). Sems. I and 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 will be limited to those students who have satisfactorily completed the preceding courses in freehand drawing, or their equivalent. Required of students in Architecture, Commercial Art, and Textile Design.
- 328x-9x. *General Course in the History of Architecture*. Cr. 2 (2-0). Sems. I and II. (Formerly 330-1-2). A survey of the development of the 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.
- 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; given in 1933-34.

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; given in 1933-34.

422x. *Building Materials and Construction*. Cr. 2 (2-0). Sem. I. (Formerly 236). Prerequisite: Arch 226x-7x. 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 individual 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, Ray, Craig. 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 thoroughly fundamental training in both chemistry and engineering. Hence, the "practical" courses are largely omitted. Emphasis, insofar as is 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, 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 uniform freshman year required of all freshman engineers is to be found on page 99 of this catalogue. The work for the three

remaining years and the description of the required courses in chemistry are set forth in the general description of 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 designs 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:

### CIVIL ENGINEERING

220x. *Elementary Surveying*. Cr. 2 (0-6). Sem. I. (Formerly 230). Prerequisite: Mathematics 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: Mathematics 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.
- 233x. *Applied Mechanics—Statics*. Cr. 3 (3-0). Sem. II. (Formerly 331). Prerequisite: Mathematics 251x. Resultants of coplanar and non-coplanar force systems; equilibrium of force systems, friction, centroids, moments of inertia.
- 310x. *Testing Laboratory*. Cr. 1 (0-3). Sem. II. (Formerly 312, 313). Prerequisite: Registration in Civil Engineering 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: Civil Engineering 335x. Standard tests of road building materials.
- 320x. *Structures*. Cr. 2 (2-3). Sem. I. (Formerly 315-6). Prerequisite: Civil Engineering 331x. Graphic Statics, stresses in framed structures by graphical methods, stress analysis of portals, design of steel roof truss.
- 321x. *Highway Engineering*. Cr. 2 (2-0). Sem. II. (Formerly 337). Prerequisite: Civil Engineering 335x. History and development of transportation, highway laws, traffic control and regulations.
- 331x. *Structures*. Cr. 3 (3-0). Sem. II. (Formerly 338-9). Prerequisite: Civil Engineering 320x. Moment and shear curves; influence lines, stresses in framed structures; moving load systems; influence tables; design of plate girder.
- 332x. *Applied Mechanics Kinematics and Kinetics*. Cr. 3 (3-0). Sems. I and II. (Formerly 332). Prerequisite: Civil Engineering 233x. 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: Civil Engineering 233x. 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: Civil Engineering 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: Civil Engineering 233x. Fundamentals of highway location, design, construction, maintenance.
- 410x. *Hydraulics Laboratory*. Cr. 1 (0-3). Sem. II. (Formerly 412). Prerequisite: Civil Engineering 420x. Laboratory study of principles taught in Civil Engineering 420x.
- 420x. *Hydraulics*. Cr. 2 (2-0). Sem. I. (Formerly 439). Prerequisite: Civil Engineering 233x. Principles of hydrostatics and hydrodynamics.
- 421x. *Specifications*. Cr. 2 (2-0). Sem. I. (Formerly 4313). Prerequisite: Senior standing or approval of instructor. Engineering specifications.
- 422x. *Highway Administration and Finance*. Cr. 2 (2-0). Sem. II. (Formerly 4311). Prerequisite: Civil Engineering 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: Civil Engineering 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: Civil Engineering 333x. Class and laboratory. The properties of the materials of engineering.
- 426x. *Water Supply and Sewage Disposal*. Cr. 2 (2-0). Sem. II. Prerequisite: Bacteriology. A brief survey course.
- 431x-2x. *Reinforced Concrete*. Cr. 3 (3-0). Sems. I and II. (Formerly 431-2-3). Prerequisite: Civil Engineering 333x. Study and application of the theory of reinforced concrete design.
- 433x. *Structures*. Cr. 3 (0-9). Sem. I. (Formerly 442). Prerequisite: Civil Engineering 331x, 333x. Design and detail of steel structures.
- 434x. *Structures*. Cr. 3 (3-0). Sem. II. (Formerly 434). Prerequisite: Civil Engineering 433x. Brief study of statically indeterminate structures.

## ENGINEERING ORIENTATION

- 111x. *Engineering Orientation*. Cr. 1 (2-0). Sem. I and 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.

## 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.

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: Physics 231x, Mathematics 251x.



Recitations and problems on the fundamental principles of the electric, magnetic and dielectric circuits.

311x-2x. *Electrical Engineering Laboratory*. Cr. 1 (0-3). Sems. I and II. (Formerly 311-2; supercedes 324-5, 326). Prerequisite: Registration in Electrical Engineering 323x or 333x. A laboratory course to accompany Electrical Engineering 323x-4x, and 333x-4x. For Civil, Chemical, Mechanical, and Textile Engineering students.

321x-2x. *Electrical Engineering Laboratory*. Cr. 2 (0-6). Sems. I and II. (Formerly 321-2-3). Prerequisite: Registration in Electrical Engineering 331x. A laboratory course to accompany Electrical Engineering 323x-4x.

323x-4x. *Elements of Electrical Engineering*. Cr. 2 (2-0). Sems. I and II. (Formerly 337-8). Prerequisite: Physics 231x, Mathematics 251x. Recitations and problems dealing with the elementary principles of direct and alternating current circuits and machinery. For Civil, and Chemical Engineering students.

331x-2x. *Principles of Electrical Engineering*. Cr. 3 (3-0). Sems. I and II. (Formerly 331-2-3). Prerequisite: Electric Engineering 230x. Recitations and problems dealing with the fundamental theory, operating characteristics, and applications of direct current apparatus and machinery. Alternating current circuits are studied in 332x.

333x-4x. *Elements of Electrical Engineering*. Cr. 3 (3-0). Sems. I and II. (Formerly 334-5-6). Prerequisite: Physics 231x, Mathematics 251x. Recitations and problems dealing with the principles of direct and alternating current circuits and machinery. For Mechanical, and Textile Engineering students.

335x. *Wiring and Illumination*. Cr. 3 (3-0). Sem. II. Prerequisite: Six semester hours of physics, and Mathematics 132x. Standard methods of wiring circuits; and the general theory, and modern methods, of illumination. For Architectural Engineering students. Given in alternate years; not given in 1933-34.

410x. *Current Electrical Engineering*. Cr. 1 (1-0). Sem. I. (Formerly 410). Prerequisite: Senior standing. A study and 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.
- 421x-2x. *Electrical Engineering Laboratory*. Cr. 2 (0-6). Sems. I and II. (Formerly 421-2-3). Prerequisite: Registration in Electrical Engineering 431x. A laboratory course to accompany Electrical Engineering 431x-2x.
- 423x-4x. *Electrical Applications*. Cr. 2 (2-0). Sems. I and II. (Formerly 434-5). Prerequisite: Registration in Electrical Engineering 431x. Problems and considerations involved in the utilization of electrical energy.
- 425x. *Thesis*. Cr. 2 (0-6). Sem. II. (Formerly 424-5). Prerequisite: Electrical Engineering 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.
- 431x-2x. *Alternating Current Machinery*. Cr. 3 (3-0). Sems. I and II. (Formerly 431-2-3). Prerequisite: Electrical Engineering 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 Electrical Engineering 431x. Theory and problems involved in the transmission of electrical energy.
- 434x. *Communication*. Cr. 3 (2-3). Sem. II. (Formerly 437). Prerequisite: Electrical Engineering 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.

## DEPARTMENT OF ENGINEERING DRAWING AND GRAPHICS

Professor Svensen. Assistant Professor Boller.

Instructors Street and Perryman.

The Department of Engineering Drawing and Graphics provides fundamental courses in the graphic language as used in the study and practice of the profession of engineering and for the development of the powers of visualization. In addition, certain other courses of educational and practical value are offered.

Approved drawing equipment is required for all courses except 131x. Specific information may be obtained from the department.

- 131x. *Graphics*. Cr. 3 (3-0). Sem. II. A survey course. Basic construction, vocabulary and uses of various kinds of drawings, charts and diagrams. Designed to give a reading knowledge of drawing and some practice in graphic description.
- 132x.-3x. *Engineering Drawing*. Cr. 3 (1-6). Each, Sems. I and II. (Formerly 135-6-7). The essentials of drafting, including free-hand 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 applications of graphics to applied arts. Outside work required.
- 135x. *The Elements of Lettering*. Cr. 3 (0-6). Sem. II. A basic course for the study of letters and lettering. The selection and use of equipment and materials. Various alphabets and letter forms. Outside work required.
- 211x. *Technical Sketching and Lettering*. Cr. 1 (0-3). Sem. II. (Formerly 211). Prerequisite: Engineering Drawing 132x or equivalent. An intensive course in orthographics and pictorial sketching and engineering lettering.
- 221x. *Machine Drawing*. Cr. 2 (0-6). Sem. I. (Formerly 232). Prerequisite: Engineering Drawing 133x or its equivalent. The application of the graphic language to engineering purposes, engineer-

ing sketching, machine fastenings, theory of dimensioning, conventional practice, machine details, graphic design, detail and assembly drawings.

222x. *Descriptive Geometry*. Cr. 2 (2-2). Sem. II. (Formerly 231). Prerequisite: Engineering Drawing 132x or its equivalent. Theory of engineering drawing which provides training in exact thinking. Includes 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. A study of orthographic projection, lettering, graphic charts, freehand sketching, and the reading of drawings related to agriculture and agricultural engineering. Designed especially for students in agriculture.

331x. *The Art of Lettering*. Cr. 3 (0-6). Sem. I. (Formerly 333). Prerequisite: Engineering Drawing 135x. 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; not given in 1933-34.

421x-2x. *Chemical Plant Design*. Cr. 2 (0-6). Sems. I and II. (Formerly 421-2). Prerequisite: Engineering Drawing 133x. Concurrent with or following Chemistry 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.

## DEPARTMENT OF GEOLOGY AND 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 to 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.

For the curriculum leading to the degree of Bachelor of Science in Geological Engineering see page 160.

## DEPARTMENT OF MECHANICAL ENGINEERING

Professor Godeke. Associate Professor Doughtie. Assistant

Professor Hardgrave. Instructor Lewis.

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 not wish to enter the design, shop, or power generating divisions, a course in Mechanical Engineering, Ad-

ministrative 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.

#### MECHANICAL ENGINEERING

- 221x. *Engineering Problems*. Cr. 2 (1-2). Sem. I. (Formerly 221). Prerequisite: Physics 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.
- 241x. *Mechanism*. Cr. 4 (2-6). Sem. II. (Formerly 222). Prerequisite: Engineering Drawing 133x and Mechanical Engineering 221x. Laws which govern the motion of the various parts of machinery. Graphic analyses are made of the various mechanisms, linkages, cams, gears, belts, and pulleys. For Mechanical Engineering students.
- 311x. *Pattern Shop*. Cr. 1 (1-2). Sem. I. (Formerly 225). Prerequisite: Engineering Drawing 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. Each student is taught the use of machine and hand tools.
- 312x. *Foundry Practice*. Cr. 1 (1-2). Sem. I. (Formerly 213). Prerequisite: Registration in Mechanical Engineering 311x. Various molding operations, such as bench, floor, pit and machine; casting of ferrous and non-ferrous metals; cupola design and operation; various methods of cleaning castings; green and dry sand tests; physical testing of cast test specimens; present day methods of making steel castings.
- 313x. *Machine Shop*. Cr. 1 (1-2). Sem. I. (Formerly 216 and 311). Prerequisite: Engineering Drawing 133x. Study of 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 (1-2). Sem. II. (Formerly 313 or 315). Prerequisite: Mechanical Engineering 313x. A continuation of Mechanical Engineering 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 (1-2). Sem. II. (Formerly 214). Prerequisite: Chemistry 220x; registration in Mechanical Engineering 337x is 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 (1-2). Sem. II. Prerequisite: Registration in Mechanical Engineering 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. *Heat Engineering Laboratory*. Cr. 1 (0-3). Sems. I and II. (Formerly 318-9 and 328-9). Prerequisite: Registration in Mechanical Engineering 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.

321x. *Thermodynamics*. Cr. 2 (2-0). Sem. II. Continuation of Mechanical Engineering 331x. For description see Mechanical Engineering 331x.

322x. *Dynamics of Machinery*. Cr. 2 (2-0). Sem. II. (Formerly 426). Prerequisite: Mechanical Engineering 241x and Civil Engineering 331x. Forces acting in various types of machines such as flywheels, governors, turbine rotors, revolving discs; also balancing of machines. Applied kinetics.

331x-321x. *Thermodynamics*. Cr. 3, 2 (3, 2-0). Sems. I and II. Continuous courses. (Formerly 332-3). Prerequisite: Physics 134x, Mathematics 251x, Mechanical Engineering 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: Registra-

tion in Mechanical Engineering 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. For Mechanical Engineering students.

333x. *Kinematics of Machinery*. Cr. 3 (2-3). Sem. II. (Formerly 227). Prerequisite: Engineering Drawing 133x and Mechanical Engineering 221x. A general course in kinematics and dynamics (for non-mechanical engineers). Motions of fundamental parts of machinery, such as linkwork, cams, gears, and flexible connections. Part of the time is devoted to static and inertia force analyses and balancing. Graphic treatment used whenever possible. For Textile and Electrical Engineering students.

334x. *Thermodynamics and Heat Engines*. Cr. 3 (3-0). Sem. I. (Formerly 334, 331). Prerequisite: Physics 134x, Mathematics 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 Mechanical Engineering 334x. Prerequisite: Mechanical Engineering 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 Mechanical Engineering 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: Physics 232x, Chemistry 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 Mechanical Engineering 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: Mechanical Engineering 322x. Continuation of tests on steam power plant equipment; turbines, fans, pumps. Tests on internal combustion engines using various fuels. Tests of refrigeration equipment. Special attention given to the analysis of data and their proper presentation in the form of an engineering report. For Mechanical Engineering students.
- 432x. *Power Plant Design*. Cr. 3 (1-6). Sem. II. Prerequisite: Mechanical Engineering 341x, 322x, 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: Mechanical Engineering 321x. Different systems for heating and ventilation of offices, hotels, and industrial plants. Air conditioning equipment.
- 434x. *Industrial Engineering*. Cr. 3 (3-0). Sem. II. (Formerly 434). Prerequisite: Economics 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: Mechanical Engineering 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; given in 1933-34.
- 436x-7x. *Machine Design*. Cr. 3 (1-6). Sems. I and II. (Formerly 4321-2-3). Prerequisite: Mechanical Engineering 322x, Civil Engineering 333x, Engineering Drawing 221x. The first part of

this course consists of lectures while the 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 321). 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.
- 441x. *Industrial Plant Design*. Cr. 4 (2-6). Sem. I. Design of a commercial plant taking into consideration: location, selection of equipment, routing, materials handling, storage, shipping, and proper working conditions. Given on sufficient demand.

## 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 divisions into engineering, chemistry, and design are 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 is made.

The textile instruction embraces 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 departments 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 department 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.

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. Cottons, 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 is studied.

131x. *Textile Fibers and Fabrics*. Cr. 3 (3-0). Sem. I. (Formerly 131-2). Fiber study, yarns, fabric design, and weaving. Fabrics, selection, and maintenance. Selection and proper use of textile material. Open to all students.

132x. *Fabric Dyeing and Maintenance*. Cr. 3 (2-3). Sem. II. (Formerly 133). 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.

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 departments of carding, spinning, weaving, and dyeing.

- 311x. *Cotton Grading and Stapling*. Cr. 1 (0-3). Sem. II. Laboratory practice in judging the grade and staple of cotton. Utility, value, 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 Chemistry 343x-4x. The chemistry and principles of the bleaching, dyeing, and finishing of fabrics.
- 331x-2x. *Yarn Manufacture*. Cr. 3 (2-3). Sems. I and II. (Formerly 331-2-3). Prerequisite: Textile Engineering 221x-2x. The construction and practical operation of the machines used in the manufacture of cotton and woolen yarns.
- 431x-2x. *Mill Organization, Knitting and Testing*. Cr. 3 (1-6). Sems. I and II. (Formerly 444-5-6). Prerequisite: Textile Engineering 331x-2x. Mill machine balance and plant layout. Work in knitting including a study of circular and warp machines, together with practical operation in the laboratory. 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: Textile Engineering 323x-4x. Practical application of the principles taught in Textile Engineering 327x-8x.
- 421x-2x. *Fabric Design, Analysis, and Manufacture*. Cr. 2 (1-3). Sems. I and II. (Formerly 437-8-9). Prerequisite: Textile Engineering 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.

## 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 classroom; to serve as a laboratory for work in the home furnishings; and to be used as a center for social activities of the School of Home Economics.

## FIELD FOR GRADUATES

There are many positions, aside from home making, open to the home economics trained woman, among which may be mentioned the following:

Tester in textile laboratories for department stores, personal shoppers in large department stores; designers in factories and dressmakers' shops; home demonstration agents; consultants or stylists in home decorating studios and department stores; dietitians in hospitals and schools; tea room or lunch room managers; writers of articles dealing with home problems.

For such commercial positions it is usually necessary that the student have the opportunity for practical experience in the commercial field, and also that she have post graduate courses in the specialized subject. The foundation work, however, is offered at 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 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.

## TEACHER'S CERTIFICATES

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* in another part of this catalogue.

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 will 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 Education 121x, 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
<b>Freshman Year</b>		
Eng. 131x-2x. Freshman Composition .....	3	3
Chem. 131x-2x. General Chemistry .....	3	3
Cloth. 131x. Elementary Textiles .....	5	—
Cloth. 132x. Clothing Construction .....	—	3
Foods 131x-2x. Food Preparation and Service .....	3	8
A. Arts 131x. Principles of Design .....	3	—
Math. 135x. Mathematics for Home Economics Students .....	—	3
H. E. Ed. 121x. Orientation for Home Economics Students .....	2	—
P. E. 111x-2x. Physical Education .....	1	1
	18	16
<b>Sophomore Year</b>		
Eng. 231x-2x. Introduction to Literature .....	3	3
Zool. 233x-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
Required Physical Education .....	1	1
	19	16
<b>Junior Year</b>		
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. 220x. 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 of 17
<b>Senior Year</b>		
Advanced Chemistry, Textile Chemistry 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. History of Costume and Advanced Dress Design .....	—	3
Cloth. 432x. Advanced Textiles .....	—	3
H. E. Ed. 411x. Home Economics Seminar .....	—	1
Elective .....	3	—
*Liberal Arts 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
<b>Freshman Year</b>		
Eng. 131x-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. Elementary Food Preparation and Serving	3	3
A. Arts 131x. Principles of Design	3	—
Math. 135x. Mathematics for Home Economics Students	—	3
H. E. Ed. 121x. Orientation for Home Economics Students	2	—
P. E. 111x-2x. Physical Education	1	1
	18	16
<b>Sophomore Year</b>		
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. 220x. American Government, National and State	—	2
H. Mgt. 322x. Home Nursing	—	2
Required Physical Education	1	1
	15	17
<b>Junior Year</b>		
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, Principles, 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. 321x. Residence Home Management House	—	2
Cloth. 431x. Textile Economics	3	—
	19	15
<b>Senior Year</b>		
Bact. 231x. Bacteriology	—	3
Foods 432x. Nutrition	3	—
Foods 423x. 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	3	—
H. E. Ed. 411x. Home Economics Seminar	—	1
*Liberal Arts Elective	3	3
	17	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 Hour	
	Sem. I	Sem. I
<b>Freshman Year</b>		
Eng. 131x-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. Principles of Design -----	3	--
Math. 135x. Mathematics for Home Economics Students -----	--	3
H. E. Ed. 121x. Orientation for Home Economics Students -----	2	--
P. E. 111x-2x. Physical Education -----	1	1
	18	16
<b>Sophomore Year</b>		
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. 220x. American Government, National and State -----	--	2
H. Mgt. 322x. Home Nursing -----	--	2
Required Physical Education -----	1	1
	16	17
<b>Junior Year</b>		
Chem. 341x. Organic Chemistry -----	4	--
Bact. 231x. Bacteriology -----	--	3
Anthropology or Sociology Elective -----	5	--
Eco. 231x. Principles of Economics or		
Ag. Eco. 233x. Economics, Principles, and Theory -----	--	3
Psy. 231x. Education Psychology -----	3	--
Ed. 234x. Principles of Secondary Education -----	--	3
H. Mgt. 331x. Household Administration -----	3	--
H. Mgt. 321x. Residence in Home Management House -----	--	2
Cloth. 431x. Textile Economics -----	3	--
Cloth. 422x. Home Furnishings -----	--	2
Foods 332x. Food Purchasing -----	3	--
Agriculture Elective -----	--	2
	19	15
<b>Senior Year</b>		
H. E. Ed. 432x. 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
Foods Elective -----	3	--
A Arts 331x. Interior Decoration -----	3	--
H. E. Ed. 411x. Home Economics Seminar -----	--	1
*Liberal Arts Elective -----	3	3
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
<b>Freshman Year</b>		
Eng. 131x-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. Elementary Food Preparation and Serving .....	3	3
A. Arts 131x. Principles of Design .....	3	—
Math. 135x. Mathematics for Home Economics Students .....	—	3
H. E. Ed. 121x. Orientation for Home Economics Students .....	2	—
P. E. 111x-2x. Physical Education .....	1	1
	18	16

<b>Sophomore Year</b>		
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
Cloth. 231x. Pattern Designing .....	3	—
Cloth. 232x. Dressmaking .....	—	3
Govt. 220x. American Government, National and State .....	—	2
A. Arts 231x. Costume Design .....	3	—
H. Mgt. 322x. Home Nursing .....	—	2
Required Physical Education .....	1	1
	16	17

<b>Junior Year</b>		
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	—
Psy. 331x. Child Psychology .....	—	3
H. Mgt. 331x. Household Administration .....	3	—
H. Mgt. 321x. Residence Home Management House .....	—	2
Cloth. 431x. Textile Economics .....	3	—
Cloth. 422x. Home Furnishings .....	—	2
Foods 332x. Food Purchasing .....	3	—
Hort. 322x. Landscape Appreciation .....	—	2
	16	15

<b>Senior Year</b>		
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
*Liberal Arts 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
<b>Freshman Year</b>		
Eng. 131x-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. Elementary Food Preparation and Serving .....	3	3
A. Arts 131x. Elementary Design .....	3	—
Math. 135x. Mathematics for Home Economics Students .....	—	3
H. E. Ed. 121x. Orientation for Home Economics Students .....	2	—
P. E. 111x-2x. Physical Education .....	1	1
	18	16
<b>Sophomore Year</b>		
Eng. 231x-2x. Introduction to Literature .....	3	3
Zool. 235x-6x. The Human Body .....	3	3
Govt. 220x. 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
Required Physical Education .....	1	1
	16	17
<b>Junior Year</b>		
Chem. 341x. Organic Chemistry .....	4	—
Bact. 231x. Bacteriology .....	—	3
Anthropology or Sociology Elective .....	3	—
Eco. 231x. Principles of Economics or	—	—
Ag. Eco. 233x. Economics, Principles, and Theory .....	—	3
Psy. 231x. Educational Psychology .....	3	—
Ed. 234x. Principles of Secondary Education .....	—	3
H. Mgt. 331x. Household Administration .....	3	—
H. Mgt. 321x. Residence Home Management House .....	—	2
Foods 332x. Food Purchasing .....	3	—
Cloth. 431x. Textile Economics .....	3	—
Cloth. 422x. Home Furnishings .....	—	2
Hort. 322x. Landscape Appreciation .....	—	2
	19	15
<b>Senior Year</b>		
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
*Liberal Arts 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.

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 colleges who wish an initial course in Art Appreciation, Elementary Design, Costume Design, and Interior Decoration.

111x. *Art Appreciation*. Cr. 1 (1-0). Sem. II. (Formerly 111).

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.

131x. *Elementary Design*. Cr. 3 (2-4). Each, Sems. I and II. (Formerly 131).

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.

132x. *Constructive and Decorative Design*. Cr. 3 (1-6). Sem. II.

(Formerly 131-132). Prerequisite: Applied Arts 131x. The application of students' designs and color combinations in batik, block print, wood carving, and leather work with further emphasis on appreciation of color and decorative design.

231x. *Costume Design*. Cr. 3 (2-4). Sems. I and II. (Formerly 231).

Prerequisite: Applied 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 (2-4). Sem. I. (Formerly 431).

Prerequisite: Applied Arts 131x. An introductory survey of our domestic architecture, followed by a study of house plans with emphasis on utility, convenience, and charm of arrangement; application of design principles to house furnishing selection and arrangement; such subjects as wall coverings, rugs; furniture, curtains, pictures and accessories.

## DEPARTMENT OF CLOTHING AND TEXTILES

Professor Erwin. Assistant Professor Buster.

Instructor .....

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 (2-4). Sems. I and II. (Formerly 131,  $\frac{1}{2}$  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 (2-4). Sems. I and II. Formerly 132,  $\frac{1}{2}$  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 (2-4). Sems. I and II. (Formerly 232). Prerequisite: Clothing 131x, 132x, Applied 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 (2-4). Sems. I and II. (Formerly 231). Prerequisite: Clothing 131x, 132x, Applied 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: Clothing 131x, 132x, 231x or 232x; Applied 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: Clothing 131x and Applied Arts 131x. Hand weaving and rug hooking. Preparing warp, threading loom, dyeing yarns and other materials.
- 331x. *Tailoring*. Cr. 3 (2-4). Sem. I. (Formerly 433.). Prerequisite: Clothing 232x, 321x, advanced standing. Technique of constructing tailored garments; pressing and cleaning. Time and cost studies. Several garments are made for customers.
- 421x. *Demonstration Clothing*. Cr. 2 (1-3). Sem. II. (Formerly 434). Prerequisite: Home Economics Education; Clothing 231x, 232x, 321x, 431x; senior standing. Study of methods used in teaching clothing. Demonstrations and projects. Preparation of illustrative material, scales, and exhibits.
- 422x. *Home Furnishings*. Cr. 2 (1-3). Sem. II. (Formerly 436). Prerequisite: Clothing 331x, Applied Arts 331x (or parallel). Purchase, use, care, and construction of household linens, curtains, rugs, upholstery, slip covers, etc. Especially for home demonstration agents and homemakers.
- 431x. *Textile Economics*. Cr. 3 (3-0). Sem. I. (Formerly 331). Prerequisite: Clothing 231x or 232x, and Economics. 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 (2-4). Sem. II. Prerequisite: Clothing 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 1933-34.
- 433x. *History of Costume and Advanced Dress Design*. Cr. 3 (2-4). 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 1933-34.

## DEPARTMENT OF FOODS AND NUTRITION

Professors Weeks, McCrery. Associate Professor Twyford.

Instructor .....

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 foods 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 (2-4). Each Sems. I and II. (Formerly 131-2-3). The fundamental principles of cookery in relation to all types of foods. Production, care, preservation, cost, and nutritive value 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). Sems. I and II. (Formerly 232-3). Prerequisite: Foods 131x-2x, Chemistry 141x-2x. Prerequisite or parallel: Zoology 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). Sems. I and 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 economies 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. 3 (1-4). Sem. I. (Formerly 334). Procedure in demonstrating before audiences of different sorts, especially for prospective teachers and home demonstration agents.
- 331x. *Large Quantity Cookery*. Cr. 3 (1-9). 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 will be given in the Home Economics Tea Room.
- 332x. *Food Purchasing*. Cr. 3 (2-4). 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. A study of the factors influencing food preparation. Comparison of commercially prepared with home prepared foods. Not offered 1933-34.
- 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; given in 1933-34.
- 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.
- 432x. *Advanced Nutrition*. Cr. 3 (2-2). Sem. II. (Formerly 432). Prerequisite: Foods 231x. Nutritive requirements from

infancy to old age. Especial 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.

## DEPARTMENT OF HOME ECONOMICS EDUCATION

Professors Weeks, Erwin. Assistant Professor Johnson.

The curriculum in the Department of Home Economics 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 desire to teach in the Vocational High Schools of the State, in addition to completing the requirement 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.

121x. *Orientation for Home Economics Students.* Cr. 2 (2-0).

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) health in its relation to the college student; (d) student budgets of time and money; (e) art appreciation; (f) simple vocational guidance. Required of all freshman home economics students.

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). Sems. I and II. (Formerly 432 and part of 431). Prerequisite: Education 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 of the department.

- 441x. *Student Teaching in Home Economics*. Cr. 4 (1-6). Sems. I and II. (Formerly 461). Prerequisite: H. E. Education 431x. Supervised observation and teaching in the Lubbock and Slaton high schools.

## 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 some 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.

- 321x. *Residence in Home Management House*. Cr. 2 (1-12). Sems. I and II. (Formerly General Home Economics 461). Prerequisite: Home Management 331x. 12 hours 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.
- 322x. *Home Nursing*. Cr. 2 (2-2). Sem. II. (Formerly H. E. 331). Prerequisite: Zoology or chemistry, nine hours. 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 (2-2). Sem. I. (Formerly H. E. 332). Prerequisite: Home Economics courses, 12 hours. 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 (2-2). Sem. I. (Formerly H. E. 333). Prerequisite: Psychology 230x. or Education 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). (Formerly H. E. 334). Prerequisite: Home management 421x. Observation and participation in the Nursery School. Offered in Summer Session only.

## DIVISION OF ARTS AND SCIENCES

James M. Gordon, M. A., LL. D., Dean

William Bryan Gates, Ph. D., 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, science, or in any other major, he must take 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 immediately following the write-up for the Division of Arts and Sciences.

## 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 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 of residence is given 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.

## FRESHMAN YEAR

	Semester Hours	
	Sem. I	Sem. II
English 131x-2x .....	3	3
A foreign language .....	3	3
A natural science 131x-2x .....	3	3
History 131x-2x or Government 131x-2x .....	3	3
*Mathematics 130x, 131x .....	3	3
Orientation 121x .....	2	.....
Physical education or military science .....	1	1
	18	16

## SOPHOMORE YEAR

English 231x-2x .....	3	3
†The foreign language begun in the freshman year .....	3	3
Government or history .....	3	3
‡A natural science .....	3	3
Philosophy 233x or Psychology 230x .....	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, Mathematics 131x is required; if only two units are accepted, Mathematics 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 requirements set up in the freshman and sophomore years. Of these twenty-four hours, eighteen hours must be courses of junior and senior rank. For his minor, he will do a minimum of twelve semester hours above sophomore rank.

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

## FRESHMAN YEAR

	Semester Hours	
	Sem. I	Sem. II
English 131x-2x .....	3	3
History 133x-4x .....	3	3
Government 131x-2x .....	3	3
Mathematics 130x, 131x, or 137x-8x .....	3	3
A natural science .....	3	3
Orientation 121x .....	2	.....
Physical education or military science .....	1	1
	18	16

## SOPHOMORE YEAR

English 231x-2x .....	3	3
History 231x-2x .....	3	3
Government 231x-2x .....	3	3
Economics 231x-2x .....	3	3
Economics 234x-5x .....	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 (sixty semester hours) of college work. The following course of study is set up for students who plan to study medicine:

## CURRICULUM FOR PRE-MEDICAL STUDENTS

## FRESHMAN YEAR

	Semester Hours	
	Sem. I	Sem. II
Chemistry 131x-2x .....	3	3
Chemistry 220x .....		2
Zoology 131x-2x .....	3	3
English 131x-2x .....	3	3
German 131x-2x or French 131x-2x .....	3	3
Orientation 121x .....	2	
Government 131x-2x or History 131x-2x .....	3	3
Physical education or military science .....	1	1
	<hr/> 18	<hr/> 18

## SOPHOMORE YEAR

Chemistry 343x-4x .....	4	4
Physics 131x-2x, 211x-2x .....	4	4
Zoology 231x-2x .....	3	3
English 231x-2x .....	3	3
The foreign language begun in the freshman year .....	3	3
Physical education or military science .....	1	1
	<hr/> 18	<hr/> 18

## THE JUNIOR AND SENIOR YEARS

If the student finds it practicable to complete his college course before studying medicine, the program of study should carry Analytical Chemistry, Animal Histology and Embryology, two years of an additional foreign language, philosophy or psychology, and other courses in chemistry and zoology which, together with electives, should make a total of 128 semester hours.

A minimum of two semester hours in government is required for graduation from medical colleges in Texas. If the course in govern-

ment is not taken before the student enters a medical college, he may take this course by correspondence or during summer school, since it is not offered by the medical schools.

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

While courses in mathematics are not specifically required for pre-medical students, it is advisable that mathematics be included. For further information, consult the pre-medical adviser.

It is highly desirable that the student should complete work for the bachelor's degree before entering a medical school. Sixty semester hours constitute the minimum requirements for admission to a medical college. College graduates, and particularly those with high grades, stand a better chance of being admitted to a medical school.

#### BACHELOR OF ARTS DEGREE FOR PRE-MEDICAL STUDENTS

Pre-medical students may obtain the degree of bachelor of arts from Texas Technological College by completing three years of work in the Division of Arts and Sciences and two years in a class A medical college, upon satisfying the following conditions:

1. A minimum of two years of resident work in Texas Technological College, including the junior year.
2. Satisfactory completion of the courses outlined in the freshman and sophomore years in the pre-medical curriculum, the science courses listed in the junior and senior years, and sufficient elective courses to make a minimum total of ninety-four semester hours.
3. 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 work leading to the degree of doctor of medicine.
4. Two years of physical education or military science.
5. The regular grade point requirement.

Dr. R. C. Goodwin, head of the Department of Chemistry, is the adviser for pre-medical students.

NOTE: An opportunity will be given pre-medical students of the College to take the aptitude tests sent out by the Association of American Medical Colleges.

## THE BACHELOR OF SCIENCE DEGREE

Certain students are preeminently 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

	Semester Hours	
	Sem. I	Sem. II
Two courses to be chosen from the following:		
Biology (Botany 131x-2x; Zoology 131x-2x; Chemistry 131x-2x; Geology 131x-2x; Physics 131x-2x or 133x-4x)	6	6
Eng. 131x-2x. Freshman Composition	3	3
A modern language	3	3
Mathematics	3	3
Or. 121x. Orientation	2	—
Required physical education or military science	1	1
	18	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	2
7. Required 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 must be completed in the Departments of Biology, Chemistry, Geology, and Physics—at least six semester hours being completed 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. At least 36 semester hours in any one of the above named sciences for a major, the proper sequence, gradation, and number of courses being left to the department in which the major is taken.

A minimum of six semester hours should be completed in each of the four science departments at the close of the sophomore year. If the major science is started in the freshman year, a second course in the major science must be taken in the sophomore year. In the event the major science is not taken in the freshman year, the work of the remaining years must be agreed upon in conference with the head of the department in which the major is taken.

All electives in any curriculum must be approved by the head of the department in which the student seeks his degree.

#### CURRICULUM FOR THE DEGREE BACHELOR OF SCIENCE BOTANY MAJOR

For the uniform freshman year, see page 150.

	Semester Hours-	
	Sem. I	Sem. II
<b>Sophomore Year</b>		
*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
Required physical education or military science	1	1
	16	16
<b>Junior Year</b>		
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
<b>Senior Year</b>		
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. 220x. American Government, National and State	2	--
Science electives (To be approved by head of department)	3	3
Electives (To be approved by head of department)	4	6
	16	16

\*If botany was not begun in the freshman year, the student will substitute Botany 131x-2x and register for additional work in botany during his junior year.

CURRICULUM FOR THE DEGREE BACHELOR OF SCIENCE  
ZOOLOGY MAJOR

For the uniform freshman year, see page 150.

	Semester Hours	
	Sem. I	Sem. II
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
Required physical education or military science .....	1	1
	16	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
	16	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. 220x. American Government, National and State .....	2	—
Science electives (To be approved by head of department) .....	3	3
Electives (To be approved by head of department) .....	4	6
	16	16

\*If Zoology was not begun in the freshman year, the student will substitute Zoology 131x-2x and register for additional work in zoology during his junior year.

**CURRICULUM FOR THE DEGREE BACHELOR OF SCIENCE  
CHEMISTRY MAJOR**

For the uniform freshman year, see page 150.

Semester Hours  
Sem. 1 Sem. 11

**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
Required physical education or military science .....	1	1
	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 .....	0	6
	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. 220x. American Government, National and State .....	—	2
Science elective .....	—	3
Electives .....	6	—
	17	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**

For the uniform freshman year, see page 150.

Semester Hours  
Sem. I Sem. II

**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. 131x-2x. Freshman Composition .....	3	3
A foreign language .....	3	3
Required physical education or military science .....	1	1
	16	16
**Geol. 263x. Field Geology (Summer) .....	6	

**Junior Year**

Geol. 333x-4x. Petrology .....	3	3
Geol. 335x-6x. General Paleontology .....	3	3
Science elective .....	3	3
Eco. 231x-2x. Principles of Economics .....	3	3
Govt. 220x. American Government, National and State .....	2	—
Elective .....	3	3
	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	2
***Science elective .....	3	—
	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

For the uniform freshman year, see page 150.

Semester Hours  
Sem. I Sem. II

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
Required physical education or military science .....	1	1
	16	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
	17	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. 220x. American Government, National and State .....	—	2
Economics elective .....	—	3
Elective .....	3	3
	15	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.

## THE DEGREE BACHELOR OF BUSINESS ADMINISTRATION

### CURRICULUM FOR THE DEGREE BACHELOR OF BUSINESS ADMINISTRATION

Semester Hours.  
Sem. I Sem. II

#### Freshman Year

Eng. 131x-2x. Freshman Composition .....	5	3
Hist. 133x-4x. History of British Civilization .....	3	3
Math. 137x-8x. Business Mathematics .....	3	3
Govt. 131x. American Government, National .....	3	—
Govt. 132x. American Government, State .....	3	3
A natural science .....	2	—
Orien. 121x. Orientation .....	1	1
Required physical education or military science .....	—	—
	18	16

#### Sophomore Year

Eng. 231x-2x. Introduction to Literature .....	3	3
Hist. 231x-2x. History of the United States .....	3	3
Math. 237x. Mathematical Theory of Life Insurance and Bonds .....	3	—
Math. 238x. Elementary Principles of Statistics and Economic Problems .....	—	3
Eco. 231x-2x. Principles of Economics .....	3	3
B. A. 211x. Elementary Typewriting .....	1	—
B. A. 234x-5x. Introduction to Accounting .....	3	3
Required physical education or military science .....	1	1
	17	16

#### Junior Year

B. A. 330x. Introduction to Business Finance .....	3	—
B. A. 331x. Corporation 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. 331x. English in Business Practice .....	—	3
Speech 322x. Business Speech .....	2	—
Electives (to be approved) .....	3	3
	17	15

#### Senior Year

Economics and Business Administration electives .....	6	6
General electives (to be approved) .....	9	9
	15	15

---

THE DEGREE BACHELOR OF SCIENCE IN EDUCATION

The degree Bachelor of Science in Education is offered prospective teachers in order to give definite professional training in this field of work.

The work of the freshman year is definitely prescribed with an option of a natural science or mathematics.

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 a major subject, or 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 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 major and minor fields. The prescribed subjects together with electives total 128 semester hours, with a minimum of 140 grade points. These must include in the junior and in the senior year a minimum of 12 semester hours in education, 12 hours in the major subject, and 6 hours in the minor subject, or in the electives.

# CURRICULUM FOR THE DEGREE BACHELOR OF SCIENCE IN EDUCATION

	Semester Hours	
	Sem. I	Sem. II
<b>Freshman Year</b>		
Ed. 131x. Introduction to Education -----	3	3
Ed. 132x. Classroom Management and Methods -----	3	3
Eng. 131x-2x. Freshman Composition -----	3	3
Speech 131x-2x. Fundamentals of Speech -----	3	3
Govt. 131x. American Government, National -----	3	3
Govt. 132x. American Government, State -----	3	3
A natural science or		
Math. 130x. College Algebra -----	3	3
and		
Math. 131x. Plane Trigonometry -----	3	3
Orien. 121x. Orientation -----	2	2
Required physical education or military science -----	1	1
	18	16

<b>Sophomore Year</b>		
Ed. 232x. History of Education -----		
Ed. 233x. School Health and Hygiene -----		
or		
Ed. 234x. Principles of Secondary Education -----		
Ed. 235x. High School Methods -----		
or		
Ed. 236x. Kindergarten-Primary Education -----	3	3
Ed. 237x. English in the Primary Grades -----	3	3
*Psy. 230x. Introduction to Psychology -----	3	3
Eng. 251x-2x. Introduction to Literature -----	3	3
Zool. 235x-6x. The Human Body -----	3	3
Major subject -----	3	3
Elective -----	1	1
Required physical education or military science -----	1	1
	16	16

\*Either semester.

<b>Junior Year</b>		
Ed. 331x. Principles of Education -----	3	3
Ed. 333x. Observation and Practice -----	3	3
Ed. 3311x. The Primary Curriculum -----	3	3
Psy. 331x. Child Psychology -----	3	3
or		
Ed. 337x. Classroom Tests -----	3	3
Ed. 339x. Character Education -----	3	3
Major subject -----	3	3
Minor subject -----	3	3
Electives -----	6	6
	18	15

<b>Senior Year</b>		
Ed. 431x. Education in the United States -----		
Ed. 432x. Public School Administration -----		
or		
Ed. 433x. School Publicity -----	3	3
Ed. 434x. The Supervision of Instruction -----	3	3
Major subject -----	3	3
Minor subject -----	3	3
Electives -----	6	6
	15	15

## 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). Sems. I and 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: 12 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: 12 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 (3-0). Sem. II. (Formerly 231 and 232). Prerequisite: 6 semester hours in botany or zoology. Principles of heredity in plants, animals, and man, with emphasis on the chromosome background for genetics; organic evolution, with illustrations from both the animal and plant kingdoms.
- 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 with 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 (0-6). S. Ecology, taxonomy, and gross morphology of the various groups of plants, with emphasis on the plant in its relation to the environment. Studies will be made at several selected camp-sites in the Southwest. In the requirements for the bachelor of arts and bachelor of science degrees, this course may be substituted for Botany 131x-2x. Open to freshman students.
- 231x. *Morphology of Higher Plants*. Cr. 3 (2-3). Sem. I. (Formerly 231). Prerequisite: Botany 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: Botany 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: 12 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.
- 332x. *Morphology of Lower Plants*. Cr. 3 (1-6). Sem. II. (Formerly 231). Prerequisite: 12 semester hours in botany; or 6 semester hours in botany and 11 in horticulture and agronomy.

Morphology of algae, fungi, liverwort, and mosses; rudiments of plant pathology.

431x. *Botanical Technique*. Cr. 3 (1-6). Sem. I. (Formerly part of 431-2-3). Prerequisite: 18 semester hours in botany. Free-hand and microtome sections; staining; making of permanent slides. Given in alternate years; not given in 1933-34.

432x. *Advanced Plant Anatomy*. Cr. 3 (1-6). Sem. II. Prerequisite: 18 semester hours in botany. Advanced studies on the tissue systems of the vascular plants, with emphasis on those of economic importance. Given in alternate years; not given in 1933-34.

#### 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: 6 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: 6 semester hours in botany or zoology. Classroom, laboratory, and field study of the more important insect pests of plants.

234x. *Principles of Zoology*. Cr. 3 (2-3). Sem. II. (Formerly 234). Prerequisite: Botany 131x-2x. Presupposes a knowledge of the structure and functions of the cell and tissues, and of a certain amount of laboratory technique. A study of some of the typical animals, especially those of economic importance. Primarily for agricultural students; not open to students who have completed Zoology 131x.

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; and 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: Zoology 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: Zoology 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.

## DEPARTMENT OF CHEMISTRY AND CHEMICAL ENGINEERING

Professors Goodwin, Ray, Craig. Assistant Professor Slagle. Instructor Marshall. Graduate Assistants Connell,\* Drake,\* Galbraith.\*

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 on page 145 of this catalogue. 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.

\*Graduate Assistant 1930-33.



## THE DEGREE BACHELOR OF SCIENCE, CHEMISTRY MAJOR

The general requirements for this degree may be found on page 153 of this catalogue. This curriculum is designed to give 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.

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 is placed on both class and laboratory work. In addition to the professional courses, the curriculum emphasizes the importance of instruction in English, economics, 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 on page 164.

## CURRICULUM IN CHEMICAL ENGINEERING

For freshman year see page 99.

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. 233x. 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. 323x-4x. Elements of Electrical Engineering .....	2	2
E. E. 311x-2x. Electrical Engineering Laboratory .....	1	1
Ger. 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. 220x. American Government, National and State.....	2	--
Engr. Dwg. 421x-2x. Chemical Plant Design .....	2	2
	16	17

- 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. A study of metals and non-metals and the underlying principles of chemistry. Serves as a six semester-hour science course. Together with Chemistry 220x, this course satisfies pre-medical requirements for general chemistry.
- 220x. *Qualitative Analysis*. Cr. 2 (1-3). Each, Sems. I and II. Prerequisite: Chemistry 131x-2x, although 132x may be taken at the same time. The qualitative separation of basic and simple acidic radicals. This course, together with Chemistry 131x-2x, completes an eight semester-hour course in general chemistry.
- 242x. *Inorganic Chemistry*. Cr. 4 (3-3). Sem. II. Prerequisite: Chemistry 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: Chemistry 131x-2x. Cannot be counted in fulfilling the major requirement in Chemistry. Materials commonly used in a power plant—water and fuels. Practical tests of such materials constitute the laboratory work. For engineers other than chemical engineering students.
- 330x. *Teaching of Chemistry*. Cr. 3 (0-9). S. Prerequisite: Chemistry 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: Chemistry 131x-2x. If Chemistry 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.
- 341x. *Organic Chemistry*. Cr. 4 (3-3). Sem. I. (Formerly 331-2). Prerequisite: Chemistry 131x-2x. A brief course. 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. An elementary course. For students in the divisions of Home Economics and Ag-

riculture. 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: Chemistry 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 department head. 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 Chemistry 441x-2x. Colloid chemistry and its application. Not given in 1933-34.

423x. *Advanced Qualitative Analysis*. Cr. 2 (0-6). Sem. I. Prerequisite: Consent of instructor. Not given in 1933-34.

430x. *Technical Analysis*. Cr. 3 (0-9). Each, Sems. I and II. Prerequisite: Consent of instructor. The analysis of water, foods, feeds, alloys, rocks, and cements. Materials analyzed will vary from year to year.

431x-2x. *Principles of Chemical Engineering*. Cr. 3 (3-0). Sems. I and II. Prerequisite: Chemistry 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: Chemistry 220x, 242x, 331x-2x, 343x-4x, calculus, and 9 semester hours in physics. Chemistry 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: Chemistry 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 421x, 422x, 423x, 430x, 434x, 531x-2x and 441x-2x when taken by graduate students may be counted for graduate credit.

### ECONOMICS AND BUSINESS ADMINISTRATION

Professor Condray. 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 entire life. In a democracy the necessity of this knowledge is especially evident since every adult has a right to vote and must, 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 and every technical man, whether he be an agriculturist, an engineer, a banker, a merchant, or a government employee, must 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 Institution. 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 Institution.

This department also presents opportunity for students in any division of the Institution to obtain fundamental training in Business Administration as a part of their preparation in engineering and in agriculture, or in any other major within the Institution. 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 line of activity in the field of business, commerce, transportation and 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 on page 156.

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 semester hours in either Economics or Economics and Business Administration, as the case may be.

#### ECONOMICS

- 231x-2x. *Principles of Economics*. Cr. 3(3-0). Each, Sems. I and II. (Formerly 231-2-3). Prerequisite: Sophomore standing. A treatment of 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 History*. Cr. 3 (3-0). Each, Sems. I and II. Prerequisite: Sophomore standing. Economic history of Europe and of the United States. The foundations of our modern economic institutions as they were in Europe. The history of the rise of modern capitalistic industry. A survey of economic development in the United States from colonial times to the present.
- 331x. *Money and Banking*. Cr. 3 (3-0). Sem. I. (Formerly 3313-14-15). Prerequisite: Economics 231x-2x. History and principles of money and banking. Existing monetary and banking systems. Special attention to the Federal Reserve system.
- 332x. *Public Utility Economics*. Cr. 3 (3-0). Sem. II. Prerequisite: Economics 231x-2x. Principles and problems of public utilities. Financing, ownership, and public relations. Valuations, rates, and regulation.
- 333x. *Public Finance*. Cr. 3 (3-0). Sem. I. (Formerly 430). Prerequisite: Economics 231x-2x. Municipal, state, and federal

finance. Principles and practices of taxation. Budgetary control and governmental expenditures.

431x. *Transportation*. Cr. 3 (3-0). Sem. II. (Formerly 433-4). Prerequisite: Economics 231x-2x. The development of the system of transportation in the United States. Governmental regulation of transportation agencies. Rate making, valuations, consolidations. Present day problems.

432x. *Labor and Labor Problems*. Cr. 3 (3-0). Sem. I. Prerequisite: Economics 231x-2x. A survey of the main forces which have created modern labor conditions and modern labor problems. Organized labor and labor legislation. Wages, hours of work, unemployment, and distribution of income. Arbitration and social insurance.

433x. *International Economic Problems and Foreign Trade*. Cr. 3 (3-0). Sem. II. Prerequisite: Economics 231x-2x. Distinction between domestic and international economic relations. Political obstacles to international trade. The tariff and commercial treaties. International monetary problems.

434x. *Price and Distribution Theory*. Cr. 3 (3-0). Sem. I. Prerequisite: Economics 231x-2x. The economic theories underlying value and distribution. The present distribution of wealth. An analysis of the orthodox theory of distribution.

435x. *Economic Cycles and Forecasts*. Cr. 3 (3-0). Sem. II. Prerequisite: Economics 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.

#### BUSINESS ADMINISTRATION

##### SECRETARIAL COURSES

211x. *Elementary Typewriting*. Cr. 1 (0-5). Sem. I. (Formerly 3140 and ½ 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. Laboratory fee, \$2.00. Typewriter rental, \$6.00.

221x. *Advanced Typewriting*. Cr. 2 (0-5). Sem. II. Formerly ½ of 3141 and 3142). Advanced copy work and dictation. Pre-

paration of stencils. Business forms. May not be used as part of the major-subject requirements for the bachelor of business administration degree but may be taken as an elective. Laboratory fee, \$2.00. Typewriter rental, \$6.00.

222x. *Elementary Shorthand*. Cr. 2 (0-5). Sem. I. (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. Laboratory fee, \$2.00.

223x. *Advanced Shorthand*. Cr. 2 (0-5). Sem. II. (Formerly  $\frac{1}{2}$  of 3244 and 3245). Prerequisite: Business Administration 222x. Advanced dictation, transcription, letter writing. Outside preparation required. Laboratory fee, \$2.00.

#### 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 Business Finance*. Cr. 3 (3-0). Sem. I. (Formerly 337-8-9). Principles of finance as applied to launching, organizing, and operating the average business enterprise.

331x. *Corporation Finance*. Cr. 3 (3-0). Sem. II. (Formerly 439). Financial problems connected with the promotion, underwriting, and sale of corporation securities. Principles and problems of organization, expansion, and reorganization of corporations.

332x. *Principles of Marketing*. Cr. 3 (3-0). Sem. I. (Formerly 3310 and  $\frac{1}{2}$  of 3311). 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). 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). 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.



- 336x. *Industrial Management*. Cr. 3 (3-0). Sem. I. (Formerly 3321-22). Production management from the managerial or executive point of view. Plant location, purchasing, budgetary control.
- 337x-8x. *Advanced Accounting*. Cr. 3 (2-2). Sems. I and II. (Formerly 3316-17-18). Advanced principles of accounting. Problems peculiar to the partnership and corporation. Accounting for insolvent concerns. Joint ventures, depreciation. Consolidated statements.
- 431x. *Office Management*.... Cr. 3 (3-0). Sem. I. (Formerly 3341). Standards of office practice, wage payment plans, equipment and its selection. Designed to meet the needs of those interested in secretarial practice and in the field of management.
- 432x. *Advertising*. Cr. 3 (3-0). Sem. II. Advertising elements such as copy, layout, media, topography. Problems applied to the principles of advertising.
- 433x. *Personnel Administration*. Cr. 3 (3-0). Sem. I. (Formerly 4210-11). The training of employees, wage systems, workmen's compensation laws, collective bargaining, trade agreements.
- 434x. *Investments*. Cr. 3 (3-0). Sem. II. (Formerly 438). Principles and forms of investments. Analysis of types of investment securities and markets for them. Relation to speculation.
- 435x. *Business Policy*. Cr. 3 (3-0). Sem. II. Business problems that have confronted leaders in trade and industry. Facts and circumstances on which they have based their decisions. 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.
- 436x. *Cost Accounting*. Cr. 3 (3-0). Sem. I. (Formerly 4213-14-15). Records and reports for the cost department. Methods of allocation of overhead costs. Records and principles for handling material, labor, indirect costs.
- 437x. *Auditing*. Cr. 3 (3-0). Sem. II. (Formerly 4333-34-35). Auditing procedure, classifications of audits and investigations. Methods of verification of financial statements. Advanced auditing and accounting problems and principles.

## DEPARTMENT OF EDUCATION AND PSYCHOLOGY

Professors Evans, Garlin. Associate Professors

Clement, 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, must 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.

*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 220x 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.

## EDUCATION

131x. *Introduction to Education*. Cr. 3 (3-0). Sems. I and 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). Sems. I and 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. A discussion of elementary skills and how they may be acquired in the classroom.

133x. *Methods in Elementary English*. Cr. 3 (3-0). S. (Formerly 138). Modern methods of teaching English fundamentals, both oral and written.

231. *Education 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 its relation to the work of the principal and the classroom teacher. A brief survey of 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). Sems. I and 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 school pupil.

- 235x. *High School Methods*. Cr. 3 (3-0). Sems. I and 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 Education 236x with emphasis on language, reading, and literature in the first three grades.
- 238x. *Literature in the Primary Grades*. Cr. 3 (3-0). S. (Formerly 238). 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.
- 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.
- 332x. *High School Problems*. Cr. 3 (3-0). S. (Formerly 332, 532). 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.
- 333x. *Observation and Practice*. Cr. 3 (3-0). Sems. I and 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.
- 334x. *Foundations of Method*. Cr. 3 (3-0). S. Prerequisite: Junior standing in Education. A critical examination of the principles underlying method in teaching. An analysis of the different elements of method and a synthesis of their relationships.

- 335x. *Group Study*. Cr. 3 (3-0). S. Prerequisite: Junior standing in Education. The purpose and procedure in applying the methods of group study in the classroom. A detailed explanation of modern group-study technique.
- 336x. *Educational and Vocational Guidance*. Cr. 3 (3-0). S. (Formerly 336). Prerequisite: Junior standing in Education. Designed 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.
- 337x. *Classroom Tests*. Cr. 3 (3-0). Sem. I. (Formerly 337, Prerequisite: Junior standing in Education. 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' Problem*. Cr. 3 (3-0). (Formerly 338, 538). 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: Given in 1933-34.
- 339x. *Character Education*. Cr. 3 (3-0). Sem. II. (Formerly 339, 534). 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: Education 236x and 237x or their equivalent. Specific aims, objectives, activities, and methods incorporated in the curriculum for the first three grades. Principles of selection and organization are worked out, present day courses of study examined, and activity programs planned.
- 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; not given in 1933-34.
- 431x. *Education in the United States*. Cr. 3 (3-0). Sem. I. (Formerly 434). Prerequisite: Senior standing and Education 232x.

A comprehensive survey of 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, selection 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.
- 435x. *Extra-curricular Activities*. Cr. 3 (3-0). 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.
- 530x. *Research*. Cr. 3 (3-0). S. (Formerly 530). Prerequisite: Graduate standing in Education. Investigation of special problems in education selected in conference with the instructor.
- 532x. *Problems in Secondary Education*. Cr. 3 (3-0). S. (Formerly 532). Prerequisite: Graduate standing in Education. An extension of Education 332x with opportunity for continuing the investigation of specific problems in the different phases of modern secondary education.
- 536x. *Guidance Problems*. Cr. 3 (3-0). S. (Formerly 536). Prerequisite: Graduate standing in Education. An extension of Education 336x with an opportunity to work out specific problems in guidance.
- 537x. *The Technique of Classroom Tests*. Cr. 3 (3-0). S. (Formerly 537). Prerequisite: Graduate standing in Education. Traditional examinations and objective tests compared; the theory of the construction of tests. How to score; the treatment of scores. The interpretation and use of tests.

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; given in 1933-34.

539x. *Character and Moral Education*. Cr. 3 (3-0). S. (Formerly 534). Prerequisite: Graduate standing in Education. An extension of Education 339x. Case study technique employed.

#### PSYCHOLOGY

230x. *Introduction to Psychology*. Cr. 3 (3-0). Sems. I and II. (Formerly 230). Prerequisite: Sophomore standing. A general 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.

232x. *General Psychology*. Cr. 3 (3-0). Sem. II. (Formerly 232). Prerequisite: Psychology 230x or its equivalent. Continuation of Psychology 230x. A survey of certain problems, principles, and methods of psychology. Facts and theories current in general psychological discussion.

233x. *Business Psychology*. Cr. 3 (3-0). Sem. II. (Formerly 236). Prerequisite: Two hours of Psychology. Psychology applied to advertising, salesmanship, employment, and industry. Given in alternate years; not given in 1933-34.

331x. *Child Psychology*. Cr. 3 (3-0). Sem. II. (Formerly 331). Prerequisite: Two hours in Psychology, and junior standing. The physiology and psychology of childhood. The effect of child study on methods of instruction and school management. The general nature, growth, and development of the child.

332x. *Advanced Educational Psychology*. Cr. 3 (3-0). S. (Formerly 332). Prerequisite: Psychology 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.



- 333x. *Measurements in Education*. Cr. 3 (3-0). Sem. I. (Formerly Education 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.
- 334x. *Mental Tests*. Cr. 3 (3-0). Sem. II. (Formerly Education 3310). Prerequisite: Psychology 333x. The principles, application and technique of the various types of mental tests. The chief emphasis is given to the theory of mental tests and to the application of such tests to the fields of education, business and the professions.
- 335x. *The Psychology of Adolescence*. Cr. 3 (3-0). S. (Formerly 335). Prerequisite: Two 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.
- 336x. *Contemporary Psychologies*. Cr. 3 (3-0). Prerequisite: 6 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; given in 1933-34.

## DEPARTMENT OF ENGLISH

Professors Carter, Doak, Mills, Smallwood. Associate Professors

Cunningham, Fowler, Gates, McGee, Strout. Assistant

Professors Allen, Horne, Knickerbocker,

Murphy. Instructors Gill, 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 language 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 worthy 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.

English 131x-2x and English 231x-2x provide the basis for all advanced courses in English and are prerequisite to them.

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).

#### ENGLISH

331x-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, as in any college course and throughout life. Grammar for oral and written speech; manuscript—page-form, spelling, capitals, punctuation; diction, phrasing, sentences; organization, worthiness, graces; effect of the whole. 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 to 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 are considered; in the second, the short story and poetry.
- 233x. *Technical Writing*. Cr. 3 (3-0). Sems. I and 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. 2 (2-0). Sems. I and II. (Formerly 2313-14). Required of sophomores in the Division of Agriculture. Themes, reports, and much practical experience in writing.
- 330x. *Chaucer*. Cr. 3 (3-0). Sem. I. (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*.
- 331x. *Chaucer: The Longer Poems*. Cr. 3 (3-0). Sem. II. (Formerly 550). An introductory study of the theme, sources, and language of Chaucer's *Troilus*. Given in alternate years; not given in 1933-34.
- 332x. *History of the English Language*. Cr. 3 (3-0). Sem. I. (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). Sem. I. (Formerly 334). Amateur performances on 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). Sem. II. (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). Sem. I. (Formerly 4392). The major figures of this course are Dryden and Pope. Consideration, however, will be given to 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). Sem. I. (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). Sem. I. (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). Sem. II. (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: English 231x-2x and junior standing in Education. Some effective methods, with attention to the 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). Sem. I. (Formerly 3311). Principles of English composition embodied in the best business practice. Text: Babenroth, *Modern Business English*.
- 3312x. *Advanced Composition*.... Cr. 3 (3-0). Sem. II. (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 will choose his kind of composition, and may do for this course papers to be submitted in other courses. Given in alternate years; not given in 1933-34.
- 3313x. *Contemporary English Poetry*. Cr. 3 (3-0). Sem. I. (Formerly 3391). Masfield, Dowson, Flecker, Brooke, Hardy, and others.
- 430x. *Elizabethan Drama*. Cr. 3 (3-0). Sem. II. (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*. Sem. II. (Formerly 431). Representative plays, with emphasis on Dryden, Otway, Congreve, Farquhar, Goldsmith, and Sheridan. Attention to sentimental comedy, bourgeois tragedy, comedy of manner,

- ballad opera, and other dramatic types. Text: Stevens, *Types of English Drama*.
- 432x. *Shakespeare and the Background*. Cr. 3 (3-0). Sem. I. (Formerly 432). A close reading of several representative plays written before 1600: *Richard III*, *Romeo and Juliet*, *Much Ado About Nothing*, *Twelfth Night*. Texts: Craig, Shakespeare; Harrison, England in Shakespeare's Day.
- 433x. *Shakespeare Criticism*. Cr. 3 (3-0). Sem. II. (Formerly 433). A review of the more substantial contributions in Shakespeare criticism from Jonson to Chambers, together with the reading of *Julius Caesar*, *Measure for Measure*, *Hamlet*, *Othello*, and *Cymbeline*. Text: D. Nichol Smith, *Shakespeare Criticism*.
- 434x. *Milton*. Cr. 3 (3-0). Sem. I. (Formerly 434). A study of 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). Sem. I. (Formerly 435). A rapid survey of 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). Sem. II. (Formerly 436). The poetry of Scott, Shelley, Keats, and Byron, with some attention to biography and background. Text: Woods, *English Poetry and Prose of the Romantic Movement*.
- 437x. *Pre-Shakespearean Drama*. Cr. 3 (3-0). Sem. I. (Formerly 437). The development of the comedy, the tragedy, and the chronicle history from early types of drama in England. Emphasis upon the plays of Lyly, Peele, Greene, Kyd, and Marlowe. Text: Manly, *Pre-Shakespearean Drama*.
- 438x. *Nineteenth Century English Prose*. Cr. 3 (3-0). Sem. II. (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*. Given in alternate years; not given in 1933-34.
- 439x. *Contemporary Drama: Ibsen to Shaw*. Cr. 3 (3-0). Sem. I. (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). Sem. I. (Formerly 4391). Extensive reading in the poetry of Tennyson, Browning, E. B. Browning, and Matthew Arnold. Class discussions will be supplemented by lectures and by student reports.
- 4311x. *English Poets of the Nineteenth Century* (continued). Cr. 3 (3-0). Sem. II. (Formerly 4390). English 4310x is not a prerequisite for this course. Selected readings 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). Sem. II. (Formerly 4393). English literature from 1740 to 1798, exclusive of the novel. An introduction to Dr. Johnson, Boswell, Goldsmith, Burke, and their circle, with some attention to the pre-romanticists. Given in alternate years; not given in 1933-34.
- 530x. *The Contemporary Short Story*. Cr. 3 (3-0). Sem. II. (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). Sem. I. (Formerly 531). American fiction to Dreiser, with some attention in lectures, to the historical background. Selected works of Howells, James, Garland, Wharton, Lewis, Bromfield, Cather, Rivaaga, and Peterkin.
- 532x. *The English Novel: Lyly to Scott*. Cr. 3 (3-0). Sem. II. (Formerly 532). Lectures on the development of the English novel, with 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). Sem. II. (Formerly 533). The novels of Dickens, Thackeray, Emily Bronte, and Hardy, with significant examples from foreign fiction.
- 534x. *Old English*. Cr. 3 (3-0). Sem. I. (Formerly 434). An introduction to the phonology and morphology of Old English. Text: Flom, *Old English Grammar and Reader*. Given in alternate years; not given in 1933-34.

- 535x. *Beowulf*. Cr. 3 (3-0). Sem. II. (Formerly 535). A close reading of the Wyatt and Chambers edition of the *Beowulf*. Supplementary Text: Lawrence, *Beowulf and Epic Tradition*. Given in alternate years; not given in 1933-34.
- 536x. *Outline of American Literary History: 1608 to the Present*. Cr. 3 (3-0). Sem. I. (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. Given in alternate years; not given in 1933-34.
- 537x. *Spenser*. Cr. 3 (3-0). Sem. II. (Formerly 537). The shorter poems, and selected cantos of *The Faerie Queene*, with incidental interpretation of allegory in the poem. Text: The Cambridge Spenser.
- 538x. *Outline of English Literary History: 600 to 1660*. Cr. 3 (3-0). Sem. I. (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. Given in alternate years; not given in 1933-34.
- 539x. *Outline of English Literary History: 1660 to 1900*. Cr. 3 (3-0). Sem. II. (Formerly 633).
- 5310x. *The Structure of the Novel*. Cr. 3 (3-0). Sem. I. (Formerly 5330). A detailed study of the elements of the novel, with some consideration of the principles of craftsmanship which make for effective fiction.

## 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, or 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, dealing pri-

- marily with the problems and methods of gathering and writing news. Laboratory work on the college publications. Text: Reporting for Beginners. Macdougall.
- 232x. *Copyreading and Headline Writing*. Cr. 3 (3-0). Sem. II. (Formerly 236). Practice in copyreading and headline writing; consideration of newspaper style, make-up, and illustrations. Laboratory work on the college publications. Text: *Editing the Day's News*, Bastian.
- 310x-1x. *Problems, Principles and Practice*. Cr. 1 (1-0). Sems. I and II. For staff members of the college publications; lectures by faculty members and practical newspaper men; round-table discussions. Particular emphasis on assignments.
- 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: *Chats on Feature Writing*, Harrington.
- 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: *The Magazine Article*, Robert P. Crawford.
- 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: *Business Problems of the Newspapers*, Brown. Given in alternate years; not given in 1933-34.
- 334x. *Editorial Writing*. Cr. 3 (3-0). Sem. II. Theory and practice of editorial writing, including consideration of the types of editorials, with analysis of style, content, and purpose; attention to technique and much practice. Text: *Editorial Writing*, Spencer. Given in alternate years; not given in 1933-34.
- 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: *The History of American Journalism*, Bleyer.
430. *Principles of Journalism*.... Cr. 3 (3-0). Sem. II. A study of the freedom of the press, the ethics of magazine and newspaper publication, the relation of the press to society, and the law of



libel. Texts: *The Ethics of Journalism*, Crawford; *The Law of Newspapers*, Arthur & Crossman.

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; not given in 1933-34.

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: *School Press Management*, Greenawalt.

## DEPARTMENT OF FOREIGN LANGUAGES

Professor Qualia. Associate Professors Whatley, Henninger.

Assistant Professors Gates, Dingus, Strehli\*.

Instructor Moulton.

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 each subject. In certain cases an alternate second year is 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 an-

\*Absent on leave, 1933-34.

other 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; not given in 1933-34.

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; given in 1933-34.

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 4310-11-12). Prerequisites: 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; not given in 1933-34.

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; given in 1933-34.

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.

#### 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 grade 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.

---

## 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, training in geology is accompanied by thorough instruction in fundamental engineering subjects. The curriculum is given on page 192. In the curriculum leading to the degree of bachelor of science, geology major, emphasis is placed upon general training in other sciences as well as specialization in geology. This curriculum is given on page 154.

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.

## CURRICULUM IN GEOLOGICAL ENGINEERING

For freshman year see page 99.

Semester Hours  
Sem. I Sem. II

## Sophomore Year

Physics 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. 233x. Applied Mechanics—Statics .....	—	3
Eng. 233x. Technical Writing .....	3	—
Geology 131x-2x. General Geology .....	3	3
Geology 231x-2x. Mineralogy .....	3	3
P. E. 213x-4x or M. S. 213x-4x. Physical Education or Military Science .....	1	1
	18	18

## Summer

Geology 263x. 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
Eng. Dwg. 222x. Descriptive Geometry .....	2	—
Geology 334x-5x. Petrology .....	3	3
Geology 337x-8x. Invertebrate Paleontology .....	3	3
C. E. 231x-2x. Plane Surveying .....	3	3
C. E. 310x. Materials Laboratory .....	—	1
	17	16

## Senior Year

Govt. 220x. American Government, National and State .....	2	—
Geology 431x-2x. Advanced General Geology .....	3	3
Geology 433x. Structural Geology .....	3	—
Geology 434x. Petroleum Geology .....	—	3
Geology 435x. Index Fossils .....	3	—
Geology 436x. Micropaleontology .....	—	3
Geology 422x. Geology of Texas .....	2	—
Geology 423x. Seminar .....	—	2
Speech 131x. Fundamentals of Speech .....	3	—
C. E. 334x. Surveying .....	—	3
Elective .....	—	3
	13	17

## GEOLOGY

- 121x. *Principles of Geology*. Cr. 2 (2-0). Each, Sems. I and 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 as a study for cultural purposes.
- 221x-2x. *Mineral Resources*. Cr. 2 (2-0). Sems. I and II. (Formerly 321-2-3). Prerequisite: Geology 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.
- 231x-2x. *Mineralogy*. Cr. 3 (2-3). Sems. I and II. (Formerly 231-2-3). Prerequisite: Preceded or accompanied by Chemistry 131x-2x. Principles of crystallography; methods of identifications of minerals; blowpipe analysis; occurrence and properties of minerals.
- 263x. *Field Geology*. Cr. 6 (0-6). S. (Formerly 294). Prerequisite: Geology 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*.
- 322x. *Geologic Mapping*. Cr. 2 (0-2). Sem. II. (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.
- 332x. *General Geology for Engineers*. Cr. 3 (2-1) Sem. I. (Formerly 332-3). Similar to Geology 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.
- 333x-4x. *Petrology*. Cr. 3 (1-6). Sems. I and II. (Formerly 334-5-6). Prerequisite: Geology 131x-2x, Geology 231x-2x.

Practical application of field classifications of rocks; methods of optical mineralogy; mineral grains; petrographic methods; classification and identification of rocks by petrographic methods.

- 335x-6x. *General Paleontology*. Cr. 3 (2-4). Sems. I and II. (Formerly 337-8-9). Prerequisite: Geology 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.
- 422x. *Geology of Texas*. Cr. 2 (2-0). Sem. I. (Formerly 311-2-3). Prerequisite: 12 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 (2-3). Sems. I and II. (Formerly 431-2-3). Prerequisite: Geology 131x-2x, 231x-2x, and 335x-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: Geology 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: Geology 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: Geology 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 Geology 335x-6x. Foraminifera and other microfossils of the oil bearing strata of Texas; methods of collection and preparation.
- 511x-2x. *Sedimentary Petrology*. Cr. 1 (0-1). Sems. I and II. (Formerly 517-8-9). Prerequisite: 24 semester hours in geology, including Geology 333x-4x. To accompany Geology 521x-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 5212-3). Prerequisite: 24 semester hours in geology, including Geology 333x-4x, and preceded or accompanied by Geology 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: 24 semester 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.

#### 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

\*On leave 1933-34.

the legal requirement for certification and graduation, and also to absorb a part of the catalogue social science requirement for graduation.

Government 220x satisfies the legal requirement for graduation and certification.

131x. *American Government, National*. Cr. 3 (3-0). Sems. I and II. (Formerly 131-2). A fundamental course. The constitution, principles, organization, and actual workings of the national government. Emphasis placed upon the duties and obligations of citizenship. For freshmen. Sophomores, juniors, and seniors will take 321x.

132x. *American Government, State*. Cr. 3 (3-0). Sems I and II. (Formerly 133). The constitution and framework of the government of Texas; comparison with other state governments. For freshmen. Sophomores, juniors, and seniors will take 322x.

220x. *American Government, National and State*. Cr. 2 (2-0). Sems. I and II. (Formerly 230). 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 teacher certification.

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.

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: Government 131x-2x. The machinery of city and county governments; 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: Government 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: Government 131x-2x. The origin and development of political parties in the United States.
- 334x. *American Political Parties, Party Analysis*. Cr. 3 (3-0). Sem. II. (Formerly 3352). Prerequisite: Government 131x-2x. Party functions, organization, finance, campaign methods, and elections.
- 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; not given in 1933-34.
- 336x. *American Diplomacy*. Cr. 3 (3-0). Sem. II. (Formerly 3371). Prerequisite: Government 131x-2x or American history. Foreign policies of the United States. Topical treatment. Given in alternate years; not given in 1933-34.
- 431x-2x. *American Constitutional Law*. Cr. 3 (3-0). Sems. I and II. (Formerly 4311-12-13). Prerequisite: Government 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.
- 433x-4x. *American Political Ideas*. Cr. 3 (3-0). Sems. I and II. (Formerly 4321-22-23). Prerequisite: Government 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; not given in 1933-34.
- 435x-6x. *International Law*. Cr. 3 (3-0). Sems. I and II. (Formerly 4331-32-33). Prerequisite: Government 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; not given in 1933-34.
- 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.
- 438x. *World Politics*. Cr. 3 (3-0). Sem. II. (Formerly 3391). Prerequisite: Government 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.

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.

## DEPARTMENT OF HISTORY AND ANTHROPOLOGY

Professors Ford, Eaves, Holden, McKay.

This department offers courses pertaining to man's activity and development that appeal to the practical minded student. A knowledge of the origin and development of present day institutions, a study of institutions that arose and declined, and a broader knowledge of the cultural aspirations of the past and of man's ability to build economic structures and direct society through changing political organizations, will enable the student to comprehend present-day thought—cultural, political, and economic.

History 131x-2x or junior standing is prerequisite for courses in anthropology. Field courses in Archaeology are given in the summers.

Courses numbered under 300 are introductory and are intended for freshmen and sophomores only; 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 majoring in history should take either History 131x-2x or History 133x-4x, and History 231x-2x, before entering advanced courses. History majors will present for graduation at least five courses (thirty semester hours), three of which must be advanced work.

Students of junior standing, whose major subject is other than history, may, with the permission of the department head, elect courses in history without having done all of the regular prerequisite work required of history majors.

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.

## HISTORY

- 131x-2x. *History of Civilization*. Cr. 3 (3-0). 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, to the Crusades; second semester, the Crusades and since.
- 133x-4x. *History of British Civilization*. Cr. 3 (3-0). Sems. I and II. (Formerly 234-5-6). (Open to all students, but required of pre-law and business administration students). Emphasis on the legal, economic, and cultural aspects of British civilization. First semester, prior to 1689; second semester, since 1689.
- 231x-2x. *History of the United States*. Cr. 3 (3-0). 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.
- 330x. *Teaching of History in the High Schools*. Cr. 3 (3-0). S. (Formerly 530). Prerequisite: 12 semester hours of history; 12 semester hours of 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 summers; given in summer of 1934.
- 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; given in 1933-34.
- 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 unifications of Italy and Germany; the Franco-Prussian War. Given in alternate years; not given in 1933-34.

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 1934.

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 1933-34.

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 1933-34.

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; given in summer of 1934.

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 political ideas in the colonies. Given in alternate summers; given in summer of 1934.

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; not given in 1933-34.

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; given in 1933-34.

- 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; not given in summer of 1934.
- 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; given in 1933-34.
- 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; given in 1933-34.
- 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 1934.
- 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; not given in 1933-34.
- 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; not given in 1933-34.
- 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 1934.

- 535x. *The Technique of Research*. Cr. 3 (3-0). Sem. I. S. (Formerly 635). A study of bibliography, sources, methods of gathering material, evaluation, elimination, assimilation, organization, and composition. Lectures, projects, and readings. Open to senior history majors and required of all graduate students majoring in history. Given in first semester of regular session and first term of summer school.

#### ANTHROPOLOGY

- 331x-2x. *Anthropology*. Cr. 3 (3-0). Sems. I and II. (Formerly 331-2-3). Development of man from his origin, and a study of 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; given in summer of 1934.
- 431x-2x. *Field and Museum Technique*. Cr. 3 (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 1934.
- 438x-9x. *North American Archaeology*. Cr. 3 (3-0). S. Prerequisite: Permission of the instructor. A field course. Lectures, research, and excavation. Given in alternate summers; given in summer of 1935.

#### DEPARTMENT OF MATHEMATICS

Professors Michie, Sparks, Underwood. Associate Professor Thompson.

Assistant Professors Heineman, Langston. Instructor

Christianson. \*Graduate Assistant Parker.

The courses of instruction in this department are designed to give the student that working knowledge of mathematics which will enable

\*Graduate assistant 1931-33.



him to solve any of the ordinary problems which may arise in the study and pursuit of the engineering and scientific professions where a knowledge of mathematics is essential. While the courses presented prepare the student for practical application of mathematics to the sciences, the principles of pure mathematics are given full emphasis.

The department offers courses which fit into the curricula of the various divisions of the College, making modifications and changes to meet the requirements of the particular division or divisions.

Courses numbered 400x and above are combined graduate and undergraduate courses. With the consent of the instructor, these courses may be taken by advanced undergraduate students who have an average grade of C plus, or better, in previous courses in college mathematics.

Students expecting to do graduate work in mathematics should have completed Calculus 251x and 233x, Solid Analytics 331x, and Theory of Equations 332x, or their equivalents, together with all prerequisites to these courses. At least nine semester hours in mathematics courses numbered 221x and above are required for admission to candidacy for the master's degree in this department.

It is important that a candidate for the master's degree plan his courses at the beginning of his graduate work. His adviser will aid him in laying out his work and in selecting a thesis subject.

In graduate or undergraduate work any scheduled course may be withdrawn where the demand does not justify giving the course.

Due to the change in the basis of instruction from three terms a year to two semesters a year, several of the semester courses in Mathematics will not adequately fit the needs of students who have attended the College before the 1933-34 session. To more completely handle this temporary situation, certain transition courses are used. These will be offered only in 1933-34.

100x. *Intermediate Algebra*. Cr. 0 (3-0). Sem. I. Required of those students who cannot keep up with the classes in Mathematics 121x.

101x. *Solid Geometry*. Cr. 0 (3-0). Sem. II. (Formerly 100). For engineering students who entered prior to September 1933, and who did not offer solid geometry as an admission unit. Given in 1933-34 if the demand justifies; not given after 1933-34.

121x-2x. *College Algebra*. Cr. 2 (2-0). Each, Sems. I and II. (Formerly 1311-12). Prerequisite: One and one-half units of high school algebra. Exponents, quadratic equations, graphs,

binomial theorem, progressions, complex numbers, and elementary theory of equations.

- 130x. *College Algebra*. Cr. 3 (3-0). Sem. I. (Formerly 130 with additional material). Prerequisite: One unit of high school algebra. Brief review of high school algebra, quadratic equations, systems of equations, graphs, logarithms, progressions, binomial theorem.
- 131x. *Plane Trigonometry*. Cr. 3 (3-0). Sems. I and II. (Formerly 132 and half of 133, also 1310 and half of 1313). Prerequisite: One unit of high school algebra and one unit of plane geometry. Trigonometric functions of angles, logarithms, solution of right triangles, circular measure, trigonometric identities, oblique triangles, and conditional equations.
- 132x. *Analytic Geometry*. Cr. 3 (3-0). Sems. I and II. (Formerly half of 133 and all of 231, also half of 1313 and all of 2321). Prerequisite: Mathematics 131x. Analysis of curves, loci, the straight line, circle, the conic sections, transformation of coordinates, polar coordinates, and the elements of solid analytics.
- 133x. *Teaching of Arithmetic*. Cr. 3 (3-0). S. (Formerly 230, but contains additional material). Prerequisite: Mathematics 121x-2x and 131x or the equivalent. For teachers of arithmetic in the first seven grades.
- 135x. *Mathematics for Students of Home Economics*. Cr. 3 (-0). Sem. II. (Formerly 1300, but contains additional material). Selected topics from advanced arithmetic, algebra, statistics; special application to problems arising in home economics.
- 137x-8x. *Business Mathematics*. Cr. 3 (3-0). Sems. I and II. (Formerly 137-8-9). Review of the principles of algebra, with work in quadratics, logarithms, progressions, ratio, variation, permutations, combinations, binomial theorem, and graphic representations. Simple and compound interest, percentages, discounts, annuities, sinking funds, amortization, depreciations, capitalized cost, building and loan associations, and other applications to business.
- 231x-2x. *Mathematics for Students of Agriculture*. Cr. 3 (3-0). Sems. I and II. (Formerly 134-5-6). College algebra, trigonometry, graphs, business mathematics, averages and mixtures, elements of statistics.
- 233x. *Applications of the Calculus*. Cr. 3 (3-0). Sems. I and II. (Formerly half of 3311 and all of 3312). Prerequisite: Mathematics 251x. Areas, volumes, centroids, moment of inertia, pressure, work, hyperbolic functions, partial differentiation.

- 237x. *Mathematical Theory of Life Insurance and Bonds*. Cr. 3 (3-0). Sem. I. (Formerly 239, but contains additional material). Elementary principles of actuarial science. Probability, mathematical expectation, commutation columns, mortality table, pure endowments, whole life insurance, term insurance, ordinary life insurance, payment insurance, endowment insurance, net premiums, loaded premiums, reserves, policy options. Bond transactions such as purchase price, yield rates, premiums and discounts, serial bonds, taxation problems arising from bond issues. Not given in 1933-34; given in 1934-35 and each year thereafter.
- 238x. *Elementary Principles of Statistics and Economic Problems*. Cr. 3 (3-0). Sem. II. (Formerly 337 and half of 338). Collection and tabulation of data, form of statistical reports, graphical presentation, frequency distributions, averages, dispersion, variation, simple correlation, index numbers. Not given in 1933-34; given in 1934-35 and each year thereafter.
- 251x. *Differential and Integral Calculus*. Cr. 5 (5-0). Sems. I and II. (Formerly 2322-3 and half of 3311). Prerequisite: Mathematics 132x. Differentiation, maxima and minima, rates, formal integration, radius of curvature.
- 321x. *Elementary Differential Equations*. Cr. 2 (2-0). Sem. II. (Formerly 3313). Prerequisite: Mathematics 251x. Methods of solution of the elementary types of differential equations; applications.
- 331x. *Solid Analytic Geometry*. Cr. 3 (3-0). Sem. I. (Formerly 330, but contains additional material). Prerequisite: Mathematics 132x, 251x. The equations of space, curves, planes, lines and quadratic surfaces.
- 332x. *Theory of Equations*. Cr. 3 (3-0). Sem. II. (Formerly 331 and parts of 332-3). Prerequisite: Mathematics 251x. Complex numbers, numerical equations, symmetric functions, and determinates.
- 337x. *Advanced Topics in Statistics*. Cr. 3 (3-0). Sem. I. (Formerly half of 338 and all of 339). Multiple and partial correlation, non-linear correlation, trend, estimation, theory of probability to statistical problems, theory of induction, sampling, random sampling, normal curve of error, least squares and moments, certain statistical tests, interpretation of statistical results. Not given in 1933-34; given in 1934-35 and each year thereafter.
- 430x. *Finite Differences*. Cr. 3 (3-0). Sem. I. (Formerly 430, but contains additional material). Prerequisite: Mathematics 251x.

The elementary theory in detail; the development of the more important methods of interpolation and summation.

- 431x. *Advanced Calculus*. Cr. 3 (3-0). Sem. I. (Formerly 431 and parts of 432-3). Prerequisite: Mathematics 233x, 251x. Fundamental principles of the calculus; power series, partial differentiation, Taylor's and Maclaurin's series, differentiation and integration of series, indeterminate forms, improper integrals. Given in alternate years; not given in 1933-34.
- 432x. *Differential Equations*. Cr. 3 (3-0). Sem. I. (Formerly 532, but contains additional material). Prerequisite: Mathematics 221x. Linear equations and equations of the second order, with geometrical and physical applications. Partial differential equations. Given in summer of 1934.
- 434x. *Higher Algebra*. Cr. 3 (3-0). Sem. II. (Formerly 434 and parts of 435-6). Prerequisite: Mathematics 251x and consent of instructor. Determinants, matrices, systems of linear equations, linear transformations, quadratic and bilinear forms. Given in alternate years; not given in 1933-34.
- 437x. *Higher Geometry*. Cr. 3 (3-0). Sem. I. (Formerly 437 and parts of 438-9). Prerequisite: The consent of the instructor. Directed segments and angles, similitude, inversion, geometry of the triangle, quadrilateral, coaxial circles. Exercises. Recommended for teachers of geometry in high schools. Given in summer of 1934.
- 439x. *Vector Analysis*. Cr. 3 (3-0). Sem. II. Prerequisite: Mathematics 251x. Scalar and vector products, divergence, gradient, curl, and applications in geometry, kinematics, electricity and hydrodynamics.
- 533x. *Differential Equations from the Standpoint of Lie Group Theory*. Cr. 3 (3-0). Sem. II. (Formerly 533 but contains additional material). Prerequisite: Mathematics 221x. A study of differential equations from the point of view of continuous groups. Given in alternate years; not given in 1933-34.
- 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. Given in alternate years; not given in 1933-34.
- 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. Given in alternate years; not given in 1933-34.

- 537x. *Theory of Functions of a Complex Variable*. Cr. 3 (3-0). Sem. I. (Formerly 537 and parts of 538-9). Prerequisite: Mathematics 431x. Introduction to the algebra and calculus of complex numbers and their geometric representations; conformal representation. The theory of power series and the properties of analytic functions. Introduction to the theory of Riemann surfaces.
- 630x. *Introduction to the Theory of Finite Groups*. Cr. 3 (3-0). Sem. I. (Formerly 630, but contains additional material). Prerequisite: Mathematics 332x. Substitution groups, Lagrange theorem, Galois theory, group of an equation, gamma groups, series of compositions. Given in summer of 1934.
- 631x. *Theory of Numbers*. Cr. 3 (3-0). Sem. II. (Formerly 631 and part of 632). Congruences, quadratic residues and reciprocity law, quadratic forms, Diophantine analysis.
- 632x. *Algebraic Invariants*. Cr. 3 (3-0). Sem. II. (Formerly 633, but contains additional material). Prerequisite: Mathematics 251x, 332x. Linear transformations, invariance of forms, geometric and algebraic properties of invariants and covariants, symbolic notation.
- 633x-4x. *Thesis Course*. Credit dependent upon the amount and quality of work done in research and in writing thesis. For candidates for the degree of master of arts. Prerequisite: Graduate standing and thirty semester hours in mathematics.

#### *Transition Courses*

(Offered only in 1933-34)

- 111x. *Trigonometric Analysis*. Cr. 1 (1-0). Sem. I. (Formerly the first half of 1313). Prerequisite: Mathematics 1310. Oblique triangles, identities, conditional equations, and inverse functions.
- 126x. *Mathematics for Students of Agriculture*. Cr. 2 (2-0). Sem. I. (Formerly 136 with prerequisite 135). Progressions, compound interest and annuities, averages and mixtures, simple machines.
- 128x. *Mathematics Preparatory to Statistics and Finance*. Cr. 2 (2-0). Sem. I. (Formerly 138). Logarithms, progressions, exponential functions, interest and discount.
- 129x. *Mathematics Preparatory to Statistics and Finance*. Cr. 2

- (2-0). Sem. II. (Formerly 139). Curve fitting, least squares, permutations, combinations, and probability.
- 211x. *Applications of the Calculus*. Cr. 1 (1-0). Sem. I. (Formerly the first half of 3311). Prerequisite: Mathematics 2323. Special integration methods, the definite integral, and areas.
- 222x. *Special Topics in Calculus*. Cr. 2 (2-0). Sem. I. (Formerly 3312). Prerequisite: Mathematics 3311. Curvature, indeterminate forms, infinite series.
- 228x. *Mathematics Theory of Investment*. Cr. 2 (2-0). Sem. I. (Formerly 238). Bonds, depreciation, capitalized cost, amortizations and sinking funds.
- 229x. *Mathematical Theory of Insurance*. Cr. 2 (2-0). Sem. II. (Formerly 239). Probability, mortality table, annuities, premiums, reserves, policy options.
- 2311x. *Integral Calculus and Applications*. Cr. 3 (3-0). Sems. I and II. (Formerly 2323 and the first half of 3311). Prerequisite: Mathematics 2322. Formal integration, the definite integral and areas.
- 2312x. *Mathematical Theory of Investment*. Cr. 3 (3-0). Sem. I. Similar to 138x. Simple and compound interest, discounts, annuities, sinking funds, amortizations, depreciation, capitalized cost, building and loan associations. For students who have completed 137-8-9 prior to September 1933. Not given after 1933-34.
- 2313x. *Mathematical Theory of Insurance and Bonds*. Cr. 3 (3-0). Sem. II. Follows 2312x; similar to 237x. Bonds and life insurance dealing with such topics as purchase price of bonds, annuity bonds, serial bonds, redemption of bonds, taxation problems arising from bond issues; probability, mathematical expectation, mortality tables, various types of insurance policies, net premiums, loaded premiums, reserves, policy options, and joint-life insurance. Not given after 1933-34.
- 241x. *Analytic Geometry and Differential Calculus*. Cr. 4 (4-0). Sem. I. (Formerly 2321 and 2322). Prerequisite: Mathematics 1313. The conic sections, transformations of coordinates, polar coordinates, differentiation, maxima and minima, rates.

## DEPARTMENT OF MILITARY SCIENCE AND TACTICS

Professor: Colonel Charles A. 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.

Military science is optional. The student may select physical training, or military science, or both.

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 (1-1). Formerly 211-2-3). Map reading; administration, the essentials of small unit mobilization, military correspondence, organization of the field artillery, characteristics 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.

321x-2x. *Military Science*. Cr. 2 (1-2). Sems. I and II. (Formerly 331-2-3). Preparation of fire (deliberate); conduct of fire (axial observation), reconnoissance, selection and occupation of

positions, command and leadership, the firing battery, duties of the executive, maneuvers limbered, duties of the reconnaissance officer.

421x-2x. *Military Science*. Cr. 2 (1-2). 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 Waghorne. Instructors LeMaire (Band),  
M. Dunn (Glee Club, Vocal).

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, however, is purely a cultural course for which there is no prerequisite.

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 in which their interest lies. Credit for seven semester hours in academic and applied music 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.

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.



## CURRICULUM FOR PUBLIC SCHOOL MUSIC MAJOR

Semester Hours  
Sem. I Sem. II

## Freshman Year

Mus. 131x-2x. Elementary Music	3	3
Mus. 133x. Music Education	1	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. 220x. American Government, National and State	2	--
Or. 121x. Orientation	2	--
A natural science	3	3
Elective	1	3
Required physical education	1	1
	18	20

## Sophomore Year

Mus. 137x-8x. History and Appreciation	3	3
Mus. 213x-4x.	1	1
Mus. 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	1	3
Required physical education	1	1
	18	18

## Junior Year

Mus. 234x.	--	3
Mus. 313x-4x	1	1
Mus. 331x-2x. Counterpoint and Composition	3	3
Applied Music elective	2	2
*German 131x2x. 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 332x-3x. Phonetics and Speech Correction	3	3
Education elective	3	--
	18	18

## Senior Year

Mus. 411x-2x. Orchestral and Band Instruments	1	1
Mus. 421x-2x. Instrumentation	2	2
Mus. 423x-4x. Conducting	2	2
Applied Music, orchestra and band elective	1	1
Education electives	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.

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 majoring 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 training.

213x-4x. 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 has C. C.

Women's Glee Club, W. G. C.

Orchestra, Or.

Band, Bd.

No credit beyond two years will be allowed unless demanded as a requirement. This same method is used for Music 313x-4x.

- 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. The conducting of choral clubs, glee clubs, orchestras; music appreciation.
- 313x-4x. 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.)

## APPLIED MUSIC

- B. Dunn, violin; M. Dunn, piano, voice; Garner, piano; George, piano;  
Huff, organ, piano, voice; Knickerbocker, violin;  
Rix, piano; Scoggin, voice.

Before credit can be given in applied music, entrance requirements (State examinations in theory and practice or the equivalent) must be met.

Fees for applied music must be paid to the individual instructors. See *Special Fees* on page 59 of this catalogue for the list of instructors and fees.

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 Wolfert—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 general orientation period for all freshmen of the College is set aside at the beginning of each college year with the object in view of aiding the student just entering college to adjust himself more easily to college life. It is extremely important that all entering freshmen be present for the orientation period. Thereafter detailed orientation courses are given to all entering freshmen in each division of the College.

During the fall semester freshmen in the Division of Arts and Sciences are enrolled in a two semester-hour credit course as outlined below. The course is repeated in the spring semester for students who enter at that time.

- 121x. *Orientation*. Cr. 2 (2-0). Sems. I and II. (Formerly 121). Two class hours and a convocation as the conduct of the course demands. In addition to regular text-book work based on texts such as "The Nature of the World and of Man," by H. H. Newman and others, and "Man and Social Achievement," by Babcock, lecture work is given 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. Required of all freshmen in this Division of Arts and Sciences.

## DEPARTMENT OF PHILOSOPHY AND SOCIOLOGY

Under the direction of J. M. Gordon, Acting Head of Department.

For the present, the work in philosophy and sociology will be confined to two years' work each, as outlined below:

## PHILOSOPHY

- 231x. *Elements of Ethics*. Cr. 3 (3-0). Sem. I. (Formerly 233). Problems of individual and social conduct; the bearing of sound ethical principles upon every day life.
- 232x. *Logic*. Cr. 3 (3-0). Sem. I. (Formerly 232). Deductive and inductive logic, with practice in logical analysis, the use of syllogism and the inductive methods, and detection of fallacies.
- 233x. *Introduction to Philosophy*. Cr. 3 (3-0). Sem. I. (Formerly 231). A survey of the fundamental issues involved in the interpretation of the world, of life, and of culture.
- 234x. *The History of Philosophy*. Cr. 3 (3-0). Sem. II. (Formerly 331). A survey of the principal philosophical systems developed by the great philosophers of the world.

## SOCIOLOGY

- 231x. *Introduction to Sociology*. Cr. 3 (3-0). Sem. I. (Formerly 231). An analysis of populations, social forces, social processes, and social products.
- 232x. *Advanced Sociology*. Cr. 3 (3-0). Sem. II. (Formerly 233). Prerequisite 231x. Some of the major social problems.
- 233x. *Social Pathology*. Cr. 3 (3-0). Sem. I. (Formerly 334). The socially inadequate; special reference to defectives and dependents.
- 234x. *Rural Sociology*. Cr. 3 (3-0). Sem. II. (Formerly 331). Special phases of rural life. The institutions and problems of rural populations; their relation to the general welfare.

## DEPARTMENT OF PHYSICAL EDUCATION

Professors Cawthon, Smith. Associate Professor Morgan.

Assistant Professors Gilkerson, Riegel.

This department provides physical education for both men and women. The aim 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.

There are two divisions in the department: Physical Education for Men, and Physical Education for Women. In both of these divisions, in addition to the required work, advanced courses are offered for students who desire instruction in methods of teaching physical education. These meet State requirements.

## PHYSICAL EDUCATION FOR MEN

113x-4x. (6 sections). *Physical Training*. Cr. 1 (0-2). Sems. I and II. (Formerly 114-5-6). Athletic games, calisthenics, corrective exercises, boxing, wrestling, tennis, golf, and swimming. Students are encouraged in any sport in which they are interested. Intramural athletics continue throughout the year. A special course is offered those students who are not physically able to take part in competitive games. Regulation scarlet and black gymnasium suits, and shoes, are to be provided by the student. Required of freshmen. (Option, Military Science).

113x-4x. (Sections 7 and 8 only). *Physical Training Tumbling Classes*. Cr. 1 (0-2). Sems. I and II. (Formerly 114-5-6). All development and drills in elementary and secondary 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).

- 431x-2x. *Coaching*. Cr. 3 (2-3). Sems. I and II. (Formerly 431-2-3). Football and basketball theory-practice, first semester. Track theory-practice, second semester. Not designed for players, but planned specifically with coaching in mind. Open to juniors and seniors. Exceptional students with minimum of 30 semester hours credit may enroll by permission of department head and dean.

#### 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
<i>Freshman Year</i>		
English 131x-2x .....	3	3
Chemistry 131x-2x .....	3	2
A foreign language .....	3	3
Education 131x, 132x .....	3	3
Mathematics 130x, 131x .....	3	3
Orientation 121x .....	2	.....
Required physical education .....	1	1
	18	16
<i>Sophomore Year</i>		
English 231x-2x .....	3	3
Government 131x, 132x .....	3	3
Zoology 235x-6x .....	3	3
The foreign language begun in the freshman year	3	3
Electives .....	3	3
Required 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.
211. *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 (0-2). 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. (For-

- merly 230). Health education programs in elementary and high schools. Hygiene and first aid material. For women and men.
- 231x. *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.
- 232x. *Physiology of Exercise*. Cr. 3 (3-0). Sem. I. (Formerly 237). The benefits and results of exercise. For women and men.
- 233x. *Methods in Elementary Physical Education*. Cr. 3 (3-0). Sem. I. (Formerly 233). Methods of teaching physical education in elementary schools; the work most adaptable to each grade. For women and men.
- 234x. *Methods in Secondary Physical Education*. Cr. 3 (3-0). Sem. II. (Formerly 234). Methods of teaching physical education in secondary schools; health examination and preparation of a complete program of physical education. For women and men.
- 235x. *Technique of Sports*. Cr. 3 (3-0). Sem. 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.

## DEPARTMENT OF PHYSICS

Professors George, Mast, Abbitt. Associate Professors

Schmidt. Graduate Assistant Houston.\*

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

\*Graduate Assistant, 1932-33.

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 the civil service requiring training in physics, scientific work with commercial companes, grad uate work in this institution or in other institutions of higher learning.

The curriculum for the degree of bachelor of arts is outlined on page 145 of this catalogue. The curriculum for the degree bachelor of science, physics major may be found on page 155 of this catalogue.

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 are well equipped with apparatus of modern design and construction. In addition, there is apparatus and equipment used exclusively for class room demonstrations.

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 presentation of the subject matter than on the solution of problems. Primarily for arts and sciences, agriculture, home economiccs, and pre-medical students.

133x-4x. *Freshman Engineering Physics*. Cr. 3 (2-3). Sems. I and II. (Formerly 144-5). Mechanics, heat, and 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 students in arts and sciences, home economics and pre-medical students.

211x-2x. *Physical Measurements*. Cr. 1 (0-3). Sems. I and II. Prerequisite: Physics 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: Physics 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; Education 131x, 132x, 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: Physics 231x-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: Physics 231x-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 transformations; and entropy.

333x-4x. *Electricity and Magnetism*. Cr. 3 (3-0). Sems. I and II. (Formerly 338-9). Prerequisites: Physics 131x-2x and integral calculus. A mathematical treatment of the theory and applications of electricity and magnetism. An introduction to electron theory, power transmission, communication, conduction of electricity through gases, radioactivity, thermionics, photoelectricity, X-rays.

423x-4x. *Electrical Measurements*. Cr. 2 (0-6). Sems. I and II. (Formerly 331-2). Prerequisite: Physics 131x-2x and integral calculus. Methods, instruments and principles relating to measuring resistance, capacitance, inductance, 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: Physics 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: Physics 333x-4x or an elementary knowl-

edge 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: Physics 231x-2x and calculus. Modern conceptions of the nature and property of matter; the corpuscular nature of radiant energy; X-rays; spectra; the periodic system; molecular structure; radioactivity; astrophysics.

511x-2x. *Physics Seminar*. Cr. 1 (1-0). Sems. I and II. (Formerly Physics 511-12-13). Prerequisite: Consent of the instructor. Weekly reports by students and members of the Department of Physics staff on recent contributions in the field of physics appearing in various scientific periodicals. Given in alternate years; given in 1933-34.

513x-4x. *Physics Seminar*. Cr. 1 (1-0). Sems. I and II. (Formerly Physics 511-12-13). Prerequisite. Consent of the instructor. Similar to Physics 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; not given in 1933-34.

531x-2x. *Theoretical Physics*. Cr. 3 (3-0). Sems. I and II. (Formerly 531-2-3). Prerequisite: Consent of the instructor. Mathematical 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: Physics 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.

## 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 of 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 133x. Voice and Diction .....	3
Speech 221x-2x. Argumentation and Debate .....	4
Speech 231x. Technique of Dramatic Art .....	3
Speech 232x. Rehearsal and Dramatization .....	3
Speech 322x. Technique of Interpretation .....	2
Speech 331x. Advanced Public Speaking .....	3
Speech 332x-3x. Phonetics and Speech Correction.....	6
Speech 421x. Problems in Speech Training .....	2

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 .....	2
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.

111x. *Parliamentary Law*. Cr. 1 (1-0). Sem. II. (Formerly 111).

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.

131x-2x. *Fundamentals of Speech*. Cr. 3 (3-0). Sems. I and II.

(Formerly 131x2). 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 engineering.

133x. *Voice and Diction*. Cr. 3 (3-0). Sem. II. (Formerly 1313).

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.

221x-2x. *Argumentation and Debate*. Cr. 2 (2-0). Sems. I and II.

(Formerly 134-5-6). Prerequisite: Government 131x-2x or enrollment in Government. A study of argumentation, analysis, evidence, persuasive 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 221x, 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 on 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.

233x. *Stagecraft and Marionette Construction*. Cr. 3 (3-0). Sem. I. (Formerly 234-5).

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.

- 321x. *Business Speech*. Cr. 2 (2-0). Sem. II. (Formerly 1314). Basic speech training and practice. The planning, construction, and delivery of the common type 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.
- 322x. *Technique of Interpretation*. Cr. 2 (2-0). Sem. II. (Formerly 233). Students are advised to take Speech 133x before entering this class. Practical application of the principles of oral interpretation. Various types of literature; emphasis on Shakespeare.
- 331x. *Advanced Public Speaking*. Cr. 3(3-0). Sem. I. (Formerly 231-2). 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.
- 332x-3x. *Phonetics and Speech Correction*. Cr. 3 (3-0). Sems. I and II. (Formerly 334-5-6). Prerequisite: Speech 133x, Zoology 234x-5x. 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.
- 421x. *Problems in Speech Training*. Cr. 2 (2-0). Sem. II. (Formerly 431). Prerequisite: 20 semester hours in Speech. The 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.

## 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 this 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). Sem. I. (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

Graduate work in Texas Technological College is confined to work toward the degrees of master of science and master of arts and is likewise confined to those departments whose staffs and facilities are adequate and qualified to give graduate work.

In general, 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, and then shall complete not less than thirty-three semester hours of 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 Graduate Committee.

The object and aim of graduate work 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 the laboratories of the various departments provide facilities for graduate work. New source material is constantly being added to the library, and the scientific equipment of the various laboratories of the institution are constantly being improved. Positions as graduate assistantships 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 the graduate work.

*Admission.* To be admitted to candidacy for the degree of master of arts or master of science 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 major in the student's work for the graduate degree must be founded on full and adequate preparation during his undergraduate training. 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.

*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 graduate work may be carried in any one semester.

*Grades.* No course will be credited if the grade is lower than B.

whether the grade is made in this college or the credit is transferred from another institution.

*Application.* A formal written application on cards furnished for that purpose must be made by the graduate student and approved by the Graduate Committee, and the dean of the division concerned, setting forth the entire course of study to be pursued and giving the subject of the thesis and the research work to be pursued as a basis for the thesis.

*Thesis.* A thesis subject must be chosen as a part of the major subject, and a full outline of the original research work to be undertaken as a basis for the thesis must be set forth and be approved by the Graduate Committee. The title of the proposed thesis and the outline of the course of study approved by the department head must be presented to the Graduate Committee not later than the first week of the second semester of the long session in which the candidate intends to present himself for the degree. Final copy of the thesis, unbound, must be presented for examination by the Committee and approval of the dean of the division concerned, not later than May 15, and the final corrected copy with the cost of binding, not later than May 25. 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.

*Major and Minor Subjects.* A candidate for the master's degree should complete a minimum of eighteen 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 be 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.

*Residence.* An applicant for the master's degree must be a student in residence at this institution for at least thirty weeks, and, in addition to this, 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 with the rank of instructor will be eligible to receive a graduate 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.

*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 given for graduate and senior credit. There 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. These students must be approved in advance by the Committee on Graduate Studies.

3. *Advanced Undergraduate Courses.* Only by special approval of the Graduate Committee will credit be given for any except regular senior courses, and then only such as have not been taken by the candidate during his undergraduate work. The approval of the courses to be taken must be specifically passed upon by the Graduate Committee.

*Oral Examination.* In addition to the regular written examinations, of which the department in which the subject is 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 to be set by the Graduate Committee.

*Graduate Degrees.* Subject to the rules herein are set forth, graduate degrees will be offered as follows: Master of Science in Agriculture, Master of Science in Education, Master of Science in Chemistry, Master of Science in Geology, Master of Arts in Education, Master of Arts in English, Master of Arts in Government, Master of Arts in History, Master of Arts in Mathematics, Master of Science in Physics, Master of Arts in Spanish.

*Professional Degrees.* An Engineering graduate of Texas Technological College may become a candidate for the professional degree corresponding to the bachelor's degree conferred upon him. The Pro-

professional degrees of Chemical Engineer, Civil Engineer, Electrical Engineer, Mechanical Engineer, Textile Engineer and Geological Engineer are available.

1. The candidate must have spent four full years subsequent to graduation in the practice of that branch of Engineering in which he graduated. Graduates who have taken their master's degree in residence in an engineering subject will be credited with two years of professional experience for the corresponding professional degree.

2. An outline of a thesis approved by the head of the department concerned and the Graduate Committee must be submitted not later than January 1 of the year in which the degree is sought, and two copies of the completed thesis must be in the hands of the head of the department not later than May 1.

3. The applicant must show to the satisfaction of the Graduate Committee and the head of the department that he has filled satisfactorily a responsible position in charge of important engineering work. Written testimonials from employers or clients will be accepted as evidence of such satisfactory service.

4. A written application, stating the degree desired, and giving a report or outline of the professional work upon which the application is based, must be submitted not later than January 1, next preceding the date when the degree is conferred.

5. All professional degrees in engineering will be conferred only upon the approval of the Graduate Committee and the faculty of the Institution.

## 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 daily classes. The Department of Extension has been approved for correspondence and extension class work by the Association of Texas Colleges, and is a member of the National University Extension Association.

### DEPARTMENTS

The extension service includes: (1) correspondence instruction, (2) class work in centers away from the campus, (3) night classes on the campus, (4) adult, non-credit courses, (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 of college entrance, (4) those who desire to take certain subjects which are not available in the regular daily schedule of the college, and (5) those who desire to take certain subjects for cultural or practical purposes, whether they can or cannot meet the college entrance requirements.

### REGULATIONS

1. One fourth of the work required for a B. A. degree, and one-half of the work required for a teacher's certificate may be done by correspondence study. 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 \$10.00; of three semester hours, \$15.00, payable in advance, and is not refunded. Extra fees are charged in case of laboratory courses.

3. Students who desire college credits must meet college entrance requirements. But students over twenty-one may enroll on the basis of individual approval.

4. A resident student may register for work in the Department of Extension, only with the approval of his dean.

5. Persons who are regularly employed, e. g., teachers, are limited to 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 will send an examination fee of one dollar to the Department of Extension. There is no fee, however, when the examination is taken on the college campus.

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

13. Library books 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 the general 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. Economics, Principles and Theory.
- 321x. Cooperation in Agriculture.
- 234x. Principles of Agricultural Marketing.
- 421x. Land Economics.
- 422x. Rural Community Leadership.
- 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.
- 221x. Breeds of Livestock.
- 231x. Farm Poultry.
- 331x. Animal Nutrition and Principles of Feeding.

*Dairy Manufactures.*

- 131x. Principles of Dairy Manufacturing.

*Horticulture.*

- 131x. Plant Propagation.
- 231x. Vegetable Gardening.
- 322x. Landscape Appreciation.

*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.



*Botany.*

- 231x. Morphology of Higher Plants.
- 232x. Taxonomy of Higher Plants.

*Chemistry.*

- 330x. Teaching of Chemistry.

*Economics and Business Administration*

- 222x-3x. Shorthand.
- 231x-2x. Introduction of Economics.
- 233x. Economic History.
- 234x-5x. Introduction to Accounting.
- 334x-5x. Business Law.
- 432x. Advertising.

*Education: Freshman and Sophomore.*

- 131x. Introduction to Education.
- 132x. Classroom Management and Methods.
- 133x. Methods in Elementary English.
- 231x. Educational Psychology.
- 232x. History of Education.
- 233x. School Health and Hygiene.
- 234x. Principles of Secondary Education.
- 235x. High School Methods.
- 236. Kindergarten-Primary Education.
- 237x. English in the Primary Grades.
- 238x. Literature in the Primary Grades.

*Education: Advanced.*

- 320x. The Principal and His School.
- 331x. Principles of Education.
- 332x. High School Problems.
- 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.

*Education: Psychology.*

- 230x. Introduction to Psychology.
- 231x. Educational Psychology.
- 232x. General Psychology.
- 331x. Child Psychology.
- 332x. Advanced Educational Psychology.
- 333x. Measurement in Education.
- 335x. The Psychology of Adolescence.

*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.

*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.
- 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 to the Nineteenth Century. (continued).
- 4312x. The Age of Johnson: Johnson and His Circle.
- 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.
- 335. 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.
- 331x-2x. Contemporary French Literature.

*Geography.*

- 122x. Economic Geography.
- 131x-2x. Human 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.
- 220x. American Government, National and State, Including Texas.
- 231x. Introduction to Political Science.
- 232x. Modern Governments.
- 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. History of British Civilization.
- 231x-2x. History of the United States.
- 330x. Teaching of History in the High School.

### *Home Economics.*

- 133x. Applied Arts: Elementary Design.
- 131x. Clothing: Elementary Textiles. (Lab. Fee, \$1.50).
- 133x. Foods: Principles of Food Selection and Elementary Nutrition.
- 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.*

- 100x. Intermediate Algebra.
- 101x. Solid Geometry.
- 121x. College Algebra.
- 122x. College Algebra (continued).
- 131x. Plane Trigonometry.
- 132x. Analytic Geometry.
- 133x. Teaching of Arithmetic.
- 135x. Mathematics for students of Home Economics.
- 137x-8x. Business Mathematics.
- 231x-2x. Mathematics for students of Agriculture.
- 221x. Elementary Differential Equations.

- 233x. Application of the Calculus.
- 237x. Mathematical Theory of Life Insurance.
- 238x. Elementary Principles of Statistics and Economic Problems.
- 251x. Differential and Integral Calculus.
- 331x. Solid Analytic Geometry.
- 332x. Theory of Equations.

*Music.*

- 131x-2x. Elementary Music.
- 231x-2x. Elementary Harmony.
- 331x-2x. Counterpoint and Composition.

*Philosophy.*

- 231x. Elements of Ethics.
- 232x. Logic.
- 233x. Introduction to Philosophy.
- 234x. The History of Philosophy.

*Physical Education.*

- 230x. Principles of Health Education.
- 233x. Methods in Elementary Physical Education.
- 234x. Methods in Secondary Physical Education.

*Physics.*

- 233x. Teaching of Physics.
- 333x-4x. Electricity and Magnetism.

*Sociology.*

- 231x. Introduction to Sociology.
- 232x. Advanced Sociology.
- 233x. Social Pathology.
- 234x. 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.

CORRESPONDENCE COURSES TO MEET COLLEGE ENTRANCE  
REQUIREMENTS

The following college entrance courses are now available, the fee for each being usually \$10.00, payable in advance.

Agriculture,  $\frac{3}{4}$  to 1 unit.  
Bookkeeping,  $\frac{1}{2}$  to 1 unit.  
Commercial Geography,  $\frac{1}{2}$  unit.  
Commercial Law,  $\frac{1}{2}$  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: Required of all Engineering Students,  $\frac{1}{2}$  unit.  
Trigonometry,  $\frac{1}{2}$  unit.

*Spanish*, 1 to 2 units.

*Typewriting*,  $\frac{1}{2}$  unit.

## EXTENSION CLASS INSTRUCTION

Extension classes will be organized in centers, upon request of a sufficient number of students, depending on the distance. Resident credit is granted. Both Graduate and undergraduate courses are available. Fee, \$15.00 per semester. Those interested in securing centers should communicate with the Director of Extension.

## NIGHT CLASSES ON THE COLLEGE CAMPUS

Night classes, to meet once or twice a week, as may be arranged, will be organized upon the request of a reasonable number, usually ten. Both graduate and under-graduate courses will be available. In some instances both credit and non-credit courses will be given. The credits will count as residence credits, and will satisfy degree or certificate purposes. The fee for any subject is generally \$15.00 per semester. A laboratory fee will be charged for the laboratory sciences.

## GROUP-STUDY INSTRUCTION

This service includes study outlines, package libraries for reference, and lectures. Details will be given upon request.

## FURTHER INFORMATION

For further information in regard to extension courses, write the Director of Extension, Texas Technological College, Lubbock, Texas.

## THE SUMMER SESSION

The summer session of Texas Technological College is an integral part of the college year. All courses offered in the summer have the same credit as in other semesters. Summer session attendance has steadily grown from 336 the first year to 1606 in 1932. The entire College plant is available for use, and many of the members of the regular faculty, assisted by visiting specialists of recognized standing, offer both regular and special courses.

The summer school is designed to fill a number of needs. A student may be in arrears in certain subjects and find it necessary to attend summer school so as to complete these and thus save practically a year's work because of the order in which some courses have to be approached. The summer school likewise serves the entering student who may thus start his studies in June instead of in September. In fact, in some phases of instruction in the Institution, three years and three summer sessions may answer just as well as the usual four years. The summer session is especially helpful to teachers and to others who find it 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 1934 SUMMER SESSION

The summer session of 1934 will open Thursday, June 7. 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 1934. This bulletin may be had by addressing the Registrar of the College.



## ENROLLMENT

## REPORT OF ENROLLMENT FOR THE YEAR, 1932-33

	Freshmen	Sophomores	Juniors	Seniors	Graduates	Totals
Agriculture .....	92	53	29	29	2	205
Engineering .....	136	107	50	76	0	369
Home Economics .....	85	45	36	40	0	206
Business Administration .....	142	95	45	38	4	324
Sciences .....	81	46	28	28	12	195
Education .....	44	42	30	34	7	157
General .....	409	247	108	79	33	876
Totals.....	989	635	326	324	58	2332

REPORT OF ENROLLMENT FOR THE SUMMER  
SESSION, 1932

	Freshmen	Sophomores	Juniors	Seniors	Graduates	Totals
Agriculture .....	18	27	24	13	10	92
Engineering .....	27	39	34	22	0	122
Home Economics .....	23	61	53	31	0	168
Business Administration .....	16	27	30	18	6	97
Sciences .....	14	11	25	11	21	82
Education .....	24	66	53	30	47	220
General .....	191	241	219	68	106	825
Totals.....	313	472	438	193	190	1606

## EXTENSION

Enrollment in Extension Classes .....	280
Enrollment in Correspondence Courses.....	553
Totals.....	833
Grand Total for the Year.....	3165

## DEGREES CONFERRED 1925-1932

## Division of Agriculture

Bachelor of Science .....	92
Master of Science .....	2

## Division of Engineering

Bachelor of Science .....	113
---------------------------	-----

## Division of Home Economics

Bachelor of Science .....	82
---------------------------	----

## Division of Arts and Sciences

Bachelor of Business Administration .....	15
Bachelor of Arts in Education .....	137
Bachelor of Arts in Science .....	190
Bachelor of Arts in Social Science .....	123
Bachelor of Arts in Languages and Music .....	207
Master of Arts .....	88
Doctor of Law .....	1

## ATTENDANCE 1925-1932

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		833	

## HONORS 1932-33

*Seniors Having Highest Scholastic Standing*

- Agriculture—Ben Hill Jenkins, Gail, Texas—91.5.  
Engineering—Travis J. Parker, Sudan, Texas—89.5.  
Home Economics—Effie Smith, Crosbyton, Texas—92.7.  
Arts and Sciences—Mrs. G. T. Hatton, McKinney, Texas—93.7.  
Mrs. Kary Mathis, Beaumont, Texas—92.9.  
Mrs. Florence Ashmore, Coleman, Texas—92.1.

*Highest Scholastic Standing for Senior Who Has Done All Work at Texas Technological College*

- Ben Hill Jenkins, Gail, Texas—91.5 (Agriculture).  
Ruth Reed, Lubbock, Texas—91.4 (Arts and Sciences).  
Allie Rae Collins, Claude, Texas—91.3 (Arts and Sciences).

*Highest Scholastic Standing for Senior Who Transferred Work to Texas Technological College*

- Mrs. G. T. Hatton, McKinney, Texas—93.6 (Arts and Sciences).  
Mrs. Gaster Spencer, Lubbock, Texas—93.1 (Arts and Sciences).  
Effie Smith, Crosbyton, Texas—92.7 (Home Economics).

*Highest Scholastic Standing in Entire College*

- James Toothaker, Downs, Kansas—95.5 (Sophomore, Arts and Sciences).  
C. E. Mitchell, Slaton, Texas—95.3 (Freshman, Arts and Sciences).  
Novelle Bussey, Lubbock, Texas—94.3 (Freshman, Arts and Sciences).  
Anna May Baucom, Lubbock, Texas—93.8 (Freshman, Arts and Sciences).

*Highest Ranking Student*

- Agriculture—T. L. Leach, Brownwood, Texas—93.7 (Sophomore).  
Engineering—H. Houston Hinson, Lubbock, Texas—93.6 (Junior).  
Home Economics—Katherine Leidigh, Lubbock, Texas—92.8 (Freshman).  
Arts and Sciences—James Toothaker, Downs, Kansas—95.5 (Sophomore).

*Highest Scholastic Standing in Freshman Class of Entire College*

- C. E. Mitchell, Slaton, Texas—95.3 (Arts and Sciences).  
Novelle Bussey, Lubbock, Texas—94.3 (Arts and Sciences).  
Anna Mary Baucom, Lubbock, Texas—93.8 (Arts and Sciences).  
Highest scholastic standing in Textile Engineering—L. E. Parsons, Syl-  
vester, Texas. (Sophomore, Engineer).  
Best work done in English by any young woman in the College—Evelyn  
Gulledge, Lubbock, Texas. (Senior, Arts and Sciences).  
Best work done in English by any young man in the College—James  
Toothaker, Downs, Kansas. (Sophomore, Arts and Sciences).  
Best college citizen among the women—Geraldine Clewell, Waco, Tex-  
as. (Senior, Home Economics).  
Best college citizen among the men—J. Preston Conner, Lubbock, Texas.  
(Senior, Engineer).

## DEGREES CONFERRED 1931-32

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 6, 1932

## SCHOOL OF AGRICULTURE

*Degree of Bachelor of Science*

	Major Study
Haskell Owen Beard, Lubbock	Agricultural Economics
Earl H. Cain, Yoakum	Dairy Manufactures
Milton Lee Campbell, Buda	Agricultural Economics
Carlton J. Carmichael, Kenna, New Mexico	Agronomy
Alvis Clinton Cook, Post	Horticulture
Monroe Copeland, Graham	Animal Husbandry
James F. Dominy, Jr., Paducah	Dairy Manufactures
Jason O. Gordon, Albany	Agricultural Economics
George M. Hale, Clarksville	Animal Husbandry
Paul Hardy, Bonham	Agronomy
Jim O. Hill, Nocona	Dairy Manufactures
Marshall W. Howard, Smyer	Agronomy
William Alpha King, Floydada	Agricultural Economics
Herbert T. Kirk, Stinnett	Agricultural Economics
Euel Liner, Lubbock	Animal Husbandry
William T. McKinney, Gordonville	Animal Husbandry
Hugo Mika, Ballinger	Dairy Manufactures
Fred Lee Nix, Lubbock	Agronomy
Mart G. Pederson, Clifton	Dairy Manufactures
Iris V. Pribble, Hamlin	Horticulture
Byron Eugene Snyder, Moran	Animal Husbandry
Edwin A. Spacek, Granger	Agricultural Economics
Sherrod S. Stover, Desdemona	Animal Husbandry
Willis Walton Tinney, Forestburg	Dairy Manufactures

## SCHOOL OF ENGINEERING

*Degree of Bachelor of Science in Architectural Engineering*

John Preston Foster	Stratford
---------------------	-----------

*Degree of Bachelor of Science in Civil Engineering*

Leslie Gordon Banner	Fort Worth
Richard Trent Campbell	Lubbock
Lemuel Bernard Dean	Lubbock
James Calvin Kerr	Lubbock

*Degree of Bachelor of Science in Electrical Engineering*

Allen Henry Burkhalter	Lubbock
Everitt Murphy Dison	Canyon
Terrill Weatherford Haymes, Jr.	Lubbock
Thomas Gus Hendrick	Lorenzo
James Milton Dyer, Jr.	Waurika, Oklahoma
Sheldon Arnold Eudaly	Fort Worth
Charles Truett Hatchett	Lamesa
Olaf T. Lodol	Mineral Wells
Ronnie James Shepherd	Memphis
Walter Thomas White	Lubbock
Samuel H. J. Womack	Colorado

*Degree of Bachelor of Science in Mechanical Engineering  
(Chemical Option)*

Roy Clifford Davis -----Itasca

*Degree of Bachelor of Science in Mechanical Engineering*

Travis E. Cowart -----Lockney  
Christopher Hill Garrison -----Lubbock  
Bruce Hill Moore -----Tyler

*Degree of Bachelor of Science in Geological Engineering*

Fred Morgan Gist -----Colorado

*Degree of Bachelor of Science in Textile Engineering*

Frank Silver Maddox -----Waco

SCHOOL OF HOME ECONOMICS

*Degree of Bachelor of Science*

	Major Study
Rheba Merle Boyles, Chillicothe	Vocational Home Economics
Mrs. Sue Morrison Brown, Lubbock	General Home Economics
Lena Lizzie Belle Clements, Lubbock	General Home Economics
Mamie Sue Flache, Brownfield	Vocational Home Economics
Ruth Grimes, Mineral Wells	Vocational Home Economics
Hazel Ida Gruver, Lubbock	Vocational Home Economics
Mrs. Louise Bales Hardy, Lubbock	Vocational Home Economics
Irene Minnie Jackson, Pampa	Vocational Home Economics
Mrs. Ione Puckett McAllister, Lubbock	Vocational Home Economics
Maetta Mounts, Hale Center	Vocational Home Economics
Gertrude Ruth Poole, Abernathy	Vocational Home Economics
Lilah Gaye Rogers, Lubbock	Vocational Home Economics
Janie Ruth Shepard, Hale Center	Vocational Home Economics
Donna Vaughn, Lubbock	General Home Economics
Margie Allethe West, Dunn	Foods and Nutrition
Ise Hildegard Wolf, Stamford	Vocational Home Economics
Mrs. Nina Hilbun Young, Roby	Vocational Home Economics

SCHOOL OF LIBERAL ARTS

*Degree of Bachelor of Arts*

	Major Study
Ruth Alexander, Breckenridge	Education
Ena Armstrong, Thrifty	Mathematics
Graydon Lamar Ausmus, Lubbock	Speech
Mrs. Afton Gilkerson Bacon, Lubbock	Education
Mrs. Vida Mae Baisden, Spur	Mathematics
Evelyn Baker, Lamesa	Education
Hilma D'aun Bartlett, Lamesa	Education
Mrs. Velma Weiman Berry, Lubbock	Education
Clifford Charles Bickman, Huntsville, Ohio	Biology
John T. Brown, Lubbock	Economics
Faye LaVerne Bumpass, Lubbock	Spanish
Harold Everett Busby, Houston	Chemistry
Mae Cantrell, Carlton	English
Sarah Hazel Cates, Wilson, Oklahoma	English
Bonita Mavis Chandler, Lubbock	Mathematics
Mary Viola Cravens, Childress	History
Lottie Croslin, Lubbock	Education
Bernice LaVera Dean, Lubbock	Speech

Joel Neil Denning, Lubbock	History
Wilson Gordon Dickinson, Lubbock	English
Felice Dockray, Lubbock	History
Arthur Frederick Fisher, Shallowater	History
Frances Erle Ford, Lubbock	History
Marshall Hollis Ford, Waco	Geology
Marshall Clinton Formby, McAdoo	Government
Lois Iwilda Freeman, Lubbock	Spanish
Mrs. Cleta Faye Cook Fryar, Midland	Education
Loraine Gable, Lubbock	Speech
Leon Nolan Gaines, Bellevue	Geology
William Horace Garrett, Lubbock	Economics
Eileen Graves, Lubbock	Speech
Carl Smith Greer, Jr., Slaton	Government
Marguerite Eugenia Hamilton, Waxahachie	Public School Music
Edward Ervin Hancock, Lubbock	Education
Elizabeth Hargrave, Dallas	Speech
Mary Edith Henderson, Byers	Economics
Winnie Hendrix, Southland	Government
Joe Culver Hill, Lubbock	Economics and Business Administration
Jessie Roy Hitchcock, Lubbock	Education
Hubert H. Hopper, Lubbock	English
Mattie Sue Howell, Olton	English
Allene Ruth Huston, Lubbock	Spanish
Joseph Martin Jackson, Houston	Economics and Business Administration
Catherine Jameson, Lubbock	History
Doris Ladd Johnson, Eastland	Government
Nathan Johnson, Seagraves	Education
Vernon Jones, Ingleside	Chemistry
Mrs. Mattilee Smith Lattimore, Lubbock	English
Ray McDearmon, Lubbock	Education
Elmo Edgar Maize, Spearman	English
Zona Elizabeth May, Snyder	Education
Alberto Melendez, Guatemala, C. A.	History
Mrs. Helen Dial Merriman, Lubbock	History
Mrs. Audrey Williams Miles, Lubbock	Speech
W. C. Morgan, Hereford	Business Administration
William Haden Nelle, Laredo	Spanish
Willard Morrish Nott, Waco	Physics
Elizabeth Houston Pace, Big Spring	History
Dena Mason Perkins, Meadow	Business Administration
Lena Lacey Perkins, Meadow	Business Administration
Muri Ratliff, Lubbock	Education
Virginia Anne Robertson, Paris	Public School Music
Inez Allison Self, Crowell	Business Administration
Lida Faye Simpson, Lubbock	Education
Vida Maye Simpson, Lubbock	Education
Dow Smallin, Abernathy	Chemistry
Carl Macon Smith, Los Angeles, California	Geology
Mrs. Joy McFarland Smith, Lubbock	English
Lois Edmonia Snoddy, Brownwood	Education
Ruth Sparks, Lampassas	Public School Music
Veta Stafford, Lubbock	English
Alfred Burton Steen, Graham	Business Administration
Alice Claire Teague, Lubbock	Public School Music
Wallace Vandike Varley, Collinsville	Geology
Curtis Loden Vick, Cleburne	Chemistry
Grady Daniel Washburn, Graham	Chemistry
Thomas Valpeau Watson, Lubbock	History
Murray Ray White, Wichita Falls	Chemistry
Edna E. Bates Wilkinson, Vernon	Education
Dorothy Loraine Wilson, Lubbock	Latin
Lloyd Blake Zellner, Lubbock	Economics
Ella Ruth Zinn, Lubbock	History

### *Degree of Bachelor of Business Administration*

Charles Adams, Jr.	Lubbock
Harold Ammons	Lubbock
Canon Clements	Lubbock
Milton Clements	Kirkland
Bill Eakin Collins	Brownfield
James Lyle Holmes	Shamrock
Ralph Erskine Penney	Lubbock
Wilbur Irvin Pittman	Amarillo
Adolphus Hyden Smith	Brownfield

*Degree of Master of Arts*

- Solon Clements, Jr., Lubbock; B. A., B. B. A., Texas Technological College; Government, thesis—"Forty-second Legislature of Texas."
- Mrs. Dora Hankins, Lubbock; B. A., New Mexico State Teachers College; Education, thesis—"Why Pupils Fail in High School."
- Edward A. Hankins, Lubbock; B. A., New Mexico State Teachers College; Education, thesis—"The Present Status of Extra Curricular Activities in the High School."
- Gordon James, Lubbock; B. A., Texas Technological College; English, thesis—"The Affective Level in Henry James's Novels."
- Helen Viola Lundell, Lubbock; B. A., Texas Technological College; Economics, thesis—"Statutes and Regulations of Public Accountancy in the United States."
- Margaret McMurry, Whitewright; B. A., Baylor University; English, thesis—"A Comparison of Chaucer's Verse Forms and Metrical Practices with Those of His French Contemporaries: Machaut, Deschamps, and Froissart."
- Hulda Wilde Marshall, Lubbock; B. A., Texas University; Chemistry, thesis—"A Resume of Analytical Methods Used for the Quantitative Determination of Iron in Iron Ore."

August 25, 1932

## SCHOOL OF AGRICULTURE

*Degree of Bachelor of Science*

	Major Study
Robert King Allen, Austin	Animal Husbandry
Landrum William Chapman, Lubbock	Dairy Manufactures
Jewell T. Gee, Carbon	Agricultural Economics
Alton Withrow Holliday, Nashville, Arkansas	Agricultural Economics
William Raymond Puryear, Poolville	Animal Husbandry

## SCHOOL OF ENGINEERING

*Degree of Bachelor of Science in Civil Engineering*

Donald B. Leach	Mineola
Ralph Woods Tucker,	Ovala

*Degree of Bachelor of Science in Electrical Engineering*

Roy Flake Hankins	Lubbock
Melvin Earl Parker	Lucille, New Mexico

*Degree of Bachelor of Science in Mechanical Engineering*

Artie Lee Hutchins	Bellview, New Mexico
Lonnie Riggins	Groom
John G. Whitehurst, Jr.	Houston
Orby Alvin Wilkes	Floydada

## SCHOOL OF HOME ECONOMICS

*Degree of Bachelor of Science*

	Major Study
Mary Lou Crain, Floydada	Vocational Home Economics

Neva Grace Deen, Melvin	-----	-----	-----	Foods and Nutrition
Hazel Marie Lee, Prairie Grove	-----	-----	Vocational	Home Economics
Ruth Evelyn Link, Tahoka	-----	-----	General	Home Economics
Virginia Murray, Lubbock	-----	-----	Vocational	Home Economics
Lucille Rice, McLean	-----	-----	Vocational	Home Economics
Joyce Teague, Lubbock	-----	-----	General	Home Economics
Mrs. Eunice Walker Perryman, Lubbock	-----	-----	General	Home Economics
Corene Ann Ratliff, Lubbock	-----	-----	General	Home Economics
Helen Winstead, Jermyn	-----	-----	General	Home Economics

	Major Study
James Sterling Abernathy, Canadian	Government
Alice Murle Beckett, Cheney, Kansas	Speech
Connie B. Bentley, Lubbock	Education
Weneva Dolores Buck, Crosbyton	Speech
Ethel Deane Brown, Cisco	Education
Lee Cargile, Muleshoe	Education
Josephine Alice Cowsert, Dimmitt	Economics
Gus Dallis, Lubbock	Economics
Nina Opal Davies, Lubbock	Latin
Emmett Esten Day, Abilene	Spanish
John Milton Dyer, Jr., Waurika, Oklahoma	Physics
Heber Michael Ellsworth, Lubbock	Economics
Mary Lois Gamel, Lubbock	Education
Mrs. Jewell Laney Gilliam, Lubbock	Chemistry
Marvin Clovis Green, Portales, New Mexico	Physics
Joseph Reagen Griggs, Lubbock	Education
Mrs. May Ellis Howell, Lubbock	History
Virginia Lee Hufstедler, Lubbock	History
Benjamin George Langford, Frankell	History
Ottie Maud Lasseter, Spur	English
Mrs. Nina Carter Lindley, Lubbock	Education
Robert Dyer Lowrey, San Antonio	Economics
Aubrey McAuley, Shallowater	History
Mary Jane Magee, Levelland	English
Catherine Page Mitchell, Bonham	Latin
Myrtle Cone Pevehouse, Lou	History
Mrs. Irma Adams Prosser, Lubbock	History
Mrs. Edna Johnson Puryear, Poolville	Education
Mrs. Sadie Cox Redford, Brownfield	Spanish
Jesse Clayton Reed, Lubbock	Economics
Cordell Windle Reeves, Sweetwater	Economics
Homer Eugene Roberts, Sweetwater	Geology
Rector Preston Roberts, Dallas	Chemistry
Homer C. Robertson, Elmo	Education
Robert Simpson Rodgers, Jr., Lubbock	History
Alice Muse Rogers, Lubbock	Spanish
Velma Maye Rogers, Trent	Mathematics
Arvil Gray Ross, Coolidge	Government
Harold Holm's, Rumph, Skellytown	Education
Ottis Lee Sanders, Brownfield	Education
Lena Myrtle Sansom, Lubbock	English
Verna Rea Simmons, Stephenville	Mathematics
Maud Dee Skeen, Silverton	Education
Herbert Rutledge Southworth, Portersfield, California	History
Mrs. Eppie Earhart Sowder, Lubbock	History
Warren Francis Swan, Mount Pleasant	History
Amoret Schwab Tunnell, Duffan	History
Della Dea Webb, Ellington, Missouri	Mathematics
Velma Lloyd White, Lubbock	English
James Henry Whiteside, Jr., Lubbock	Economics
Wilton Samuel Wilks, Plainview	Economics
Mina Marie Wolf, Stamford	Chemistry
Louise Wolffarth, Lubbock	History
Maurice O. Woolam, Smvcr	Education

Tommie Abraham	Canadian
Solon Clements, Jr.	Lubbock
Julius H. Craver	Yantis
Garland Davis	Teague
Ellis Ray Forman	Teague
Earl Brian Hobbs	Littlefield



*Degree of Master of Arts*

- Claude Spaulding Denham, Lubbock; B. A., Texas Technological College; History, thesis—"Social and Industrial Development in Crockett County."
- George Wilson Drake, Kress; B. S., Texas Technological College; Chemistry, thesis—"Some Physical Properties of Gallium."
- Mrs. Marion Evans Freeman, Houston; B. A., University of Texas; Education, thesis—"The School Newspaper as a Device in Teaching English."
- Guy H. Haynes, Burleson; B. A., Trinity University; History, thesis—"A Study of Saddleback Ruin."
- Charles E. Houston, Lubbock; B. S., Texas Technological College; Physics, thesis—"A Study of Atmospheric Electricity."
- Charles B. Jackson, Plainview; B. S., North Texas State Teachers College; Economics, thesis—"A Test of the Relative Merits and Demerits of the Journal-Account and the Account-Equation Approaches in Bookkeeping."
- Arvy Freed Ligon, Fort Worth; B. A., North Texas State Teachers College; History, thesis—"A Brief Account of Newspaper Influence on American Politics."
- Sarah Edith Love, Caviness; B. A., University of Arkansas; English, thesis—"A Selected List of English Word Innovations from the Latin in the Works of the Elizabethan Critical Essayists."
- Ernest J. Lowrey, Lubbock; B. A., Texas Christian University; History, thesis—"A Study of Antelope Creek Ruin."
- Aline McCarty, Lubbock; B. A., North Texas State Teachers College; Mathematics, thesis—"A Table of Roots of a Geniral Cubic."
- Edward Allen McCullough, Waco; B. A., Texas Technological College; Geology, thesis—"The Petrology of Certain Igneous Rocks of Eastern New Mexico."
- Calden Crusoe Miller, Dallas; B. S., North Texas State Teachers College; Education, thesis—"A Comparison between the I. Q. and the Achievements of Fall Term and Winter Term Freshmen in the Oak Cliff High School, Dallas."
- Carl E. Patterson, Lubbock; B. A., University of Tulsa; English, thesis—"The Conception of Ideal Beauty in the Poetry of Shelley and Keats."
- W. M. Pevehouse, Lou; B. A., Texas Technological College; Education, thesis—"Educational History of Hockley County, Texas."
- James Matthew Rankin, Ralls; B. A., Texas Technological College; English, thesis—"Voltaire's Criticisms of Shakespeare."
- DeWitt Talmage Smith, Lubbock; B. A., University of Tulsa; Education, thesis—"A Course of Study in the Elementary Grades for the Albany Public Schools."
- James Frank Vannerson, Tulia; B. A., Texas Technological College; History, thesis—"American Pro-Slavery Arguments: 1840-60."
- Eula Marie Wales, Georgetown; B. A., Southwestern University; English, thesis—"The Literary Expression of Walt Whitman's Ideals of Democracy."
- Lola Fae Wales, Georgetown; B. A., Southwestern University; Education, thesis—"Jesus Christ as an Educator."
- Henry Pearson Webb, Sr., Olton; B. S., Valparaiso; Education, thesis—"The Status of Rural School Supervision in Texas."
- Robert Stewart White, Amarillo; B. S., State Teachers College, Shippensburg, Pennsylvania; Education, thesis—"Laboratory Method Versus Demonstration Method of Teaching Biology."
- Margaret Hallam Williams, Luling; B. A., Texas Technological College; Mathematics, thesis—"Analytical Study of the Constant  $e$ ."
- Carl Hammel Willingham, Lubbock; B. A., Texas Technological College; Mathematics, thesis—"The Roots of a Family of Cubics."
- William Oliver Willingham, Albany; B. S., East Texas Normal College; Education, thesis—"The Progress of Negro Education in Texas."
- Mrs. Mildred Poole Zeigler, Plainview; B. A., University of Texas; History, thesis—"Colonel R. P. Smythe, Pioneer Surveyor and Organizer in West Texas."

## REGISTER OF STUDENTS

## Summer School, 1932

## ABBREVIATIONS

A—Agriculture  
E—Engineering  
H—Home Economics  
L—Liberal Arts  
G—Graduate

1—Freshman  
2—Sophomore  
3—Junior  
4—Senior

Classifications are based on the student's classification as follows: Summer of 1932 as at entrance; long session, 1932-33 as of January, 1933, except those who attended the spring term only. Spring term students are classified as of March, 1933.

Abbott, Rosser, 1L	Lubbock	Beard, Evelyn, 1L	Lubbock
Abraham, Tom, 4L	Canadian	Beard, Stella, 3H	Lubbock
Adkins, Freddie, 3H	Lubbock	Bearden, Mrs. Pearl June, 3L	Lamesa
Adkisson, Alfred J., 4L	Lubbock	Bearden, Victor C., 4L	Lamesa
Alexander, Jennie Beth, 1L	Sweetwater	Bearden, Wendell, 4L	Lamesa
Alexander, Mary, 2L	Lubbock	Beatty, Curtis A., 2L	Wichita Falls
Alford, Mrs. Icie M., 2L	Littlefield	Beatty, Nina, 3L	Throckmorton
Alford, Roscoe R., 1L	Littlefield	Beaver, Leo H., 3A	Fluvanna
Alford, Mrs. Ruth, 2L	Enochs	Beene, G. L., 4A	Roby
Allee, Lella Ben, 1L	Crowell	Beene, Mrs. Iva Ritchey	Panhandle
Allen, Faye, 2L	Gustine	Bell, Hubert, G	Rochester
Allen, Inez, 2L	Lubbock	Bell, John, 1E	Lubbock
Allen, Robbie L., 3L	Elida, N. M.	Belson, Maynard J., G	Marlin
Allen, Robert K., 4A	Leander	Belt, Ala Rae, 2H	Milano
Allen, S. T., 4L	San Angelo	Benefield, Mrs. Pauline, 2H	Spur
Allen, Mrs. S. T., 1L	Knickerbocker	Benefield, S. L., 3L	Spur
Allensworth, Hubert, 1L	Lubbock	Benham, Ford C., 2E	Lubbock
Anderson, D. V., 1E	Lufkin	Benham, Gene, 1H	Lubbock
Anderson, Lois, 1L	Meadow	Bennett, Aubrey G., 3L	Spur
Anderson, Velma, 3H	Aspermont	Bennett, Mrs. A. G., 2L	Spur
Andrews, Lucille, 2L	Lubbock	Bennett, Mrs. Carmen, 1L	Paducah
Ansley, Mary, 3L	Lubbock	Bennett, Frances, 2L	Loraine
Anthony, Ben, 1L	Brownwood	Bennett, Jessica W., G	Lubbock
Anthony, Jas. A., 1A	Farwell	Bennett, Ruth, 1L	Gail
Anthony, Mrs. Ruby, G	Covington	Bentley, C. B., 4L	Lubbock
Anthony, S. G., G	Covington	Bentley, Homer D., 2L	Shallowater
Arnett, Alyne, 1L	Smyer	Beran, Alvina, 1L	Lubbock
Arnett, Anna Bass, 3H	Lubbock	Beran, Lumir E., 1L	Lubbock
Arnett, Mildred, G	Anton	Bergholm, Mrs. C. O., 3L	Lubbock
Ash, Berlun, 2L	Lubbock	Berrier, Christine, 2H	Maypearl
Ash, Govie Lucille, 1H	Lubbock	Berry, Mrs. John, 1L	Clyde
Ashby, Letha, 3L	McLean	Bickley, Cecil, 3L	Lubbock
Ashley, Mrs. Gladys F., 1L	Lubbock	Biggers, Etta Mae, 2L	McKinney
Ashmore, Mrs. Florence, 3L	Lubbock	Bilberry, Edna, 1L	Peacock
Au, Chung Wo, 3L	Hong Kong, China	Bills, Wilda, 3L	Dawson
Auburg, Mrs. J. T., 1L	Brownfield	Binford, Davis H., 2L	McPherson, Kans.
Austin, R. S., 2L	Mount Belvieu	Binford, Melvin J., G	McPherson, Kans.
Bacon, Virginia, 4L	Lubbock	Bisbee, Helen, 4L	Benjamin
Baggett, Cecil, 3L	Strong City, Okla	Bishop, A. C., 3L	Shallowater
Bailey, Carl M., 3L	Estelline	Bishop, Mrs. A. C., 3L	Shallowater
Bailey, Walker, 3L	Big Spring	Black, H. Crawford, 4L	Lubbock
Bain, Vada, 3L	Sweetwater	Blackmon, Minnie, G	El Paso
Baird, Selma, G	Vernon	Blackstock, Mamie Nell, 3L	Brownfield
Baker, James W., 2L	Seagraves	Blakeney, Mrs. Bonnie, 2L	Fort Worth
Baker, Mildred, 1L	Spur	Blakeney, William Gordon, 2L	Fort Worth
Baker, Opal, 2L	Winters	Blanton, Oneita, 2L	Munday
Ball, Erlene, 3L	Hobbs, N. Mex.	Bledsoe, Belva A., 2L	Westbrook
Ballard, Fae, 2L	Lubbock	Bludworth, Mrs. Lucille, G	Lubbock
Ballenger, Felix, 3L	Lubbock	Blythe, Helen, 2L	Kaufman
Ballew, Verda, 1H	O'Donnell	Blythe, Mrs. R. T., 1L	Sheffield
Banta, David, 2L	Bellaire	Bobo, Clarence, 3L	Paducah
Barkham, Billy, 1E	Lubbock	Bobo, Mrs. Irene, 1H	Trickhan
Barkham, Jorga, 2L	Lubbock	Bogan, Bernard R., 2E	Lubbock
Barnett, Beulah, 2H	Quanah	Bogard, Hazel, 2L	Chillicothe
Barnett, Mary, 3H	McCamey	Bolton, Chas. Lee, 1E	Quanah
Barnett, Gladys, G	Waco	Bond, Walter N., 1L	Brownfield
Bartlett, Wilma, 4H	Dimmitt	Bonneau, N. T., 1L	Lubbock
Barton, Ernest F., 2A	Lubbock	Boren, I. L., 4L	Lubbock
Bass, Laura Sue, 1L	Lubbock	Bowen, Marie, 2L	Lubbock
Bates, Louise, 3H	Lubbock	Bowerman, Aaron P., 3L	Norton, N. M.
Baum, Fannie, 2L	Cross Plains	Bowerman, Mrs. Bessie, 2L	Lubbock
Bavousett, Roe, 4A	Snyder	Bowlin, H. C., 3L	Lubbock
Baze, Vadabel, 4L	Lubbock	Bowman, Euphie, 3H	Malakoff
Bean, Russell, 4A	Lubbock	Bowman, Olga, 2L	Seymour
Bean, Sallye W., G	Lubbock	Boyd, Etta C., G	Fort Worth
Beard, Bernice, 1L	Lubbock	Boyd, Luvenia, 1L	Lubbock

Boyd, Roy, 2L	Idalou	Chamberlain, James, G	Weinert
Boyd, Mrs. Roy, 4L	Idalou	Chance, Juanita, 1H	Ralls
Boyd, V. E., 2L	Abilene	Chandler, Flora Mae Oliver, 2L	
Boyd, Virginia, 1L	Idalou		Chillicothe
Bramlett, Ernest Carl, 2A	Tolar	Chapman, Catherine, G	Lubbock
Brand, Nona, 2L	Houston	Chapman, Emma, 4H	Lubbock
Brandon, M. C., 1A	Stephenville	Chapman, L. W., 4A	Lubbock
Brandon, Mrs. M. C., 1L	Stephenville	Chappelle, Ray L., G	Pearsall
Branton, Mrs. Effie L., 4L	Lubbock	Chastain, Claud H., 2L	Hamlin
Bratcher, Guy, 2A	Lubbock	Chatham, Mrs. Grace, 3H	Ida'ou
Bresenham, Floyd, 1E	Abilene	Cheatham, Frank, 2L	San Antonio
Brewer, Vernon, 4L	Benjamin	Chenowith, Elizabeth, 4H	Panhandle
Brewster, Bryan, 2L	Blanket	Chesser, Bristol, G	Stanton
Bridges C. Guy, 2L	Stamford	Chesser, Mrs. Joyce, 3L	Stanton
Brinker, R. A., 2L	Sweetwater	Cheyne, Edith Richey, 3H	Dumont
Brock, Sarah, 1L	Seminole	Chilcoat, Bettye, 2L	Truscott
Bromley, Mrs. J. J., 2L	Plainview	Chilcoat, Connell, 1L	Truscott
Brooks, Armilda, 3H	Levelland	Childers, Lorene, 2L	Lubbock
Brown, Aleen, 3L	Ackerly	Childers, Mrs. Fred, 1L	Lubbock
Brown, Ethel, G	Slaton	Childs, Ruth, 3L	Timpson
Brown, Fay, 3L	Tahoka	Chiple, Jack, 1L	Lubbock
Brown, Mrs. Kathayn, G	Millsap	Christman, Edna, 4H	Arlington
Browning, Margaret Bess, 1L		Christopher, N. H., 2E	Lubbock
	Weatherford	Clack, Mattie, 2L	Peacock
Bryan, Bruce, 2E	Lubbock	Clark, Adrian, 1L	Denison
Bryan, Mrs. J. Neuel, 3L	Lubbock	Clark, Clifton W., 1L	Idalou
Bryant, Fred, 3L	Muleshoe	Clark, G. Conrad, G	Megargel
Bryant, Olin, 2L	Lorenzo	Clark, Lawrence, G	Idalou
Bryant, Mrs. Virdia D., 2L	Snyder	Claunch, B. F., 4L	Clayton
Buck, Weneva, 4L	Crosbyton	Clawson, Herschel, G	Van Horn
Buckner, Mrs. Kyle M., 2L	Lorenzo	Clawson, Mrs. Lucy E., 3L	Van Horn
Buckner, Oran, 1L	Lubbock	Clay, Florine, 1L	Shamrock
Buie, Jas. Morgan, 4E	Fort Worth	Clement, Robert Stansell, 3L	Wellington
Bulkeley, Mildred, 1H	Wichita Falls	Clinton, Mrs. James, 2L	Tahoka
Burford, Mrs. Mae O., 2L	Lubbock	Coats, Minnie L., 2L	Tahoka
Burgess, LaVerne, G	Lubbock	Cobb, Charles, 3L	Lubbock
Burgess, Leslie Van, 4L	Lubbock	Cobb, E. J., G	McLean
Burk, Oliver A., G	Lubbock	Cobb, Mrs. E. J., G	Lubbock
Burke, J. L. Jr., G	Hobbs, N. Mex.	Cobb, Mozelle, 1L	Lubbock
Burleson, Mrs. J. M., 2L	Meadow	Coffee, Lola D., 3L	Loraine
Burnes, Flossie, 2L	Leuders	Coffman, Harlan S., 2L	Granite, Okla.
Burnes, Inez, 2L	Leuders	Coffman, Mrs. Harlan, 1L	Granite, Okla.
Burney, Alice, 2L	Lubbock	Cole, Lena Sue, G	El Paso
Burns, Mrs. Ruby, 3L	Morton	Cole, Ruby, 3L	El Paso
Butler, Annie Lorea, 3H	Lubbock	Cole, Vada, 4H	Post
Butler, Gladys, 3L	Lubbock	Cole, W. Frank, 3E	Ropesville
Butler, Lois, 3L	Lubbock	Coleman, Mildred, 3L	Lubbock
Butts, Bartie Lee, 1L	Quanah	Coles, Era, 1L	Colorado
Butts, Hubert, 3L	Quanah	Coles, Ewell, 3A	Colorado
Byrd, Ardath, 2L	Colorado	Colley, S. V., G	Harrold
Byrd, Mrs. J. W., 1L	Crosbyton	Collie, Rubye, 2H	Hobbs, N. Mex.
		Collier, Margie, 3L	Stanton
Cade, Grace, 3L	Chandler	Collins, John Anna, 1L	Dallas
Cade, Van, 2L	Chandler	Collins, Noble, 3L	Winnboro
Caldwell, Ann, 2L	Lubbock	Collum, Blanche, 3L	Tatum, N. Mex.
Caldwell, J. B., G	Chicota	Compton, L. G. Jr., 2L	Corsicana
Caldwell, Mrs. J. B., G	Chicota	Connell, C. H., G	Artesia Wells
Caldwell, W. B., 3L	Lubbock	Connelly, Lolita, 3L	Ranger
Callaway, Ruby, 2L	Wichita Falls	Conner, Mrs. Mary, 2L	Coleman
Cammack, Tom, 1L	Lubbock	Cook, Curtis, 2L	Wilson
Camp, E. W., G	Auburn, Ala.	Cook, Elton, 1A	Lubbock
Campbell, Mary Louise, 3L	Lubbock	Cook, Lydia, 3L	Henrietta
Campbell, Virginia, 2L	Birome	Cook, Velma, 2L	Skellytown
Cannon, Demp, 1L	Slaton	Cooke, Verlin, 2H	Winters
Cannon, W. F., G	Roanoke	Cooper, Albert H., 1L	Seymour
Cannon, Mrs. W. F., 1L	Jacksboro	Cooper, F. W., G	Ysleta
Cantrell, Ralph B., 3E	Mexia	Cooper, Mrs. J. R. B., 3L	Lubbock
Cargile, Lee, 4L	Lubbock	Cope, Sybil, 1L	Lubbock
Carlisle, Marshall D., 1E	Houston	Copeland, Floyd, 3L	Bowie
Carney, Marie, G	San Angelo	Copeland, John A., G	Tatum, N. Mex.
Carson, Sarah Evelyn, 4L	Stamford	Copeland, Louvil, 2A	Bowie
Carter, Anabel, 1L	Lubbock	Copeland, Velma, 2H	Bowie
Carter, J. T., G	Happy	Copeland, Vera, 2H	Bowie
Carter, Mrs. J. T., G	Benton	Corry, Stuart, 1E	Denton
Carter, Lee B., 2A	Darrouzett	Costello, Ellen Frances, 2L	Pickwick
Carter, Naomi, 1L	Lubbock	Coston, Olie, 3L	Hermleigh
Carter, Rosalie, 2L	Childress	Cousins, Jewell, G	McLean
Cary, Vivian, 2L	Snyder	Cowan, Coleman, 2A	Lubbock
Casey, Marie, 2H	Snyder	Cowan, George, 2E	Seymour
Cassel, Lorene, 2H	Lubbock	Cowden, W. E., 2L	Midland
Caudill, Katherine, 1L	Hobbs, N. Mex.	Cowsert, Josephine, 4L	Dimmitt
Caviness, Edith, 3L	Mineral Wells	Cox, Catherine, 2L	Canyon
Cearley, C. G., 1L	Smyer	Cox, Jewel, 3H	Lorenzo

Cox, John T., 3A	Mineral Wells	Dean, Jewell, 2L	Hermleigh
Cox, Leah, 4H	Lubbock	Deaton, Mildred, 3L	Dumont
Cox, Mrs. Tom B., 2H	Lubbock	Dedmon, Pearl Anne, 1L	Sagerton
Craft, Lucille, 1L	Alvar do	Deen, Neva, 4H	Melvin
Craig, Ada, 1L	Tatum, N. Mex.	Derring, Eva, 4L	Olive, N. Mex.
Craig, Mrs. Hazel C., 2L	Slaton	Denham, Claude S., G	Ozona
Craig, Marguerite, 1H	Austin	Denham, Mrs. Pauline, G	Ozona
Craig, Minnie L., 1L	Tatum, N. Mex.	Dennis, Eva, 3L	Ranger
Craig, R. L., G	Slaton	Dillehay, Mrs. Bonnie, 3L	Lubbock
Craig, Ruth, 2L	Lubbock	Dixon, Carolyn, 4H	Bellevue
Crain, Mary Lou, 4H	Floydada	Dobkins, Glenn, 3L	Lubbock
Craver, Julius, 4L	Yautis	Dobkins, Joyce, 2L	Lubbock
Crawford, Bob, 1L	Lubbock	Dodson, Ione, 3L	Whitney
Crawford, Claude, 1L	Dallas	Donaldson, Anna Belle, 3L	Lubbock
Crawford, Elsie, 3L	Levelland	Donnell, Ruth, 2L	Eliasville
Crawford, Ethel C., 2L	Lubbock	Doolittle, Perry H., 3L	Amherst
Crawford, Herschel, 3E	Slaton	Doran, J. Buck, 2L	Lovington, N. M.
Crawford, Maggie, 2L	Estelline	Doran, Mrs. Lula, 3L	Lovington, N. M.
Crawford, Geneva, 3L	Dimmitt	Doss, Beth, 1L	Seminole
Criswell, Delmar R., G	Buckholts	Doughtie, John A., 1E	Cleburne
Crockett, Ellen, 1L	Littlefield	Douglas, Mrs. Josephine, 4L	Lubbock
Crockett, Lydia, 1H	Littlefield	Douglas, Ralph, 2E	Lubbock
Crooks, Boyd, 3L	Morton	Douglas, Ruth, 3L	Lubbock
Crooks, Mrs. Boyd, 1L	Morton	Douthit, Gladys, 2L	Tahoka
Crosby, Ree Birta, 1L	Shamrock	Douthit, Lowell, 2L	Tahoka
Crosland, Maude, 1L	Palo Pinto	Dowell, G. S., G	Dickens
Croslin, Lloyd, G	Lubbock	Dowell, Horace Frederick, G	Crosbyton
Cross, J. H., G	Lubbock	Drown, Jack, 2L	Lubbock
Crouch, Velda, 1L	Spur	Dryden, Mary Elizabeth, 2L	Lubbock
Crowell, J. M., 1L	Crowell	Dryden, Myrtle B., 2L	Lubbock
Crowell, Marion Fike, 1L	Crowell	Dulaney, Frances, 2L	Tahoka
Crumley, F. B., G	Roxton	Dulin, Tommie Ruth, 1L	Wilson
Cudd, Helen, 1L	Spur	Duncan, Allene, 1L	Lubbock
Cummings, Mrs. Inez, 3H	Aberdeen	Duncan, Hazel, 4H	Lubbock
Cummings, L. O., 3L	Aberdeen	Duncan, Homer, 3L	Lubbock
Cummings, Leola, 2H	Lakeview	Dunlap, Mildred, 2L	Spur
Cunningham, Noah, 2L	McLean	Dunlap, W. R., 2L	Lorenzo
Cunningham, Mrs. Noah, 1L	McLean	Dunlop, Margaret Ruth, 3L	Lubbock
Cunningham, Orville, 2L	McLean	Dunn, Raymond E., 3L	Slaton
Cunningham, Mrs. Ruth, 1L	Spaulsburg	Durrenberger, Louise, G	Copperas Cove
Cunningham, W. C., 1L	Spaulsburg	Dyer, J. M., 4L	Waurika, Okla.
Cunyus, F. A., 2L	Lockney		
Curce, Onys, 3A	Mart	Earnest, Edith, 3L	Lubbock
Curry, Melva Emily, 1L	Venus	Easley, Tom Lee, 3A	Seymour
		Eaton, Marjorie, 2H	Lubbock
Dallis, Gus, 4L	Lubbock	Eaton, Merle, 2L	Rule
Dalton, Lowell A., 2E	Marshall	Eaton, Verna Mae, 1L	Rule
Daniel, Mrs. Grace, 1L	Smyer	Eaves, Mrs. C. D., 2L	Lubbock
Daniel, Lois, 3L	Seminole	Eddleman, Frank, 1E	Lubbock
Davenport, Mrs. Ava, 3L	Pooleville	Edwards, Bruce W., G	Whitney
Davenport, Claire, 4L	Pooleville	Edwards, Mrs. Bruce W., G	Whitney
Davenport, I. G., 3L	Pooleville	Edwards, Jewell E., 4L	Paris
Davenport, Maurine, 3L	Eastland	Eggleston, Mila, 3L	Vernon
Davidson, Mrs. H. A., 3L	Lubbock	Ehresman, Elsie L., 2L	Kress
Davidson, Phil. H., 2L	Winters	Ehresman, Jessie, 4H	Kress
Davies, Josephine, 2L	Southland	Elder, Henry, 2A	Cuero
Davies, Nina Opal, 4L	Lubbock	Elder, Otis, 3L	Hale Center
Davis, A. C., 3L	Idaiau	Elkin, Harold G., 2E	Channing
Davis, Blanche, 3L	Lubbock	Elkins, C. H., 3L	Lubbock
Davis, Chapman, 3L	Sulphur Springs	Elliott, Roy, 3E	Winnsboro
Davis, Dewey, G	Seminole	Ellis, Alvis, 3L	Anton
Davis, Mrs. Dewey, 2L	Seminole	Ellis, Mrs. A. R., 1L	Slaton
Davis, E. Pearle, 4L	Lubbock	Ellis, Cleo, 1L	Plainview
Davis, Edna Tom, 2L	Olton	Ellis, Elizabeth, 1L	Lubbock
Davis, Garland, 4L	Teague	Ellis, Mrs. L. C., 1L	Lubbock
Davis, Herbert, 2A	Silverton	Ellis, Magnolia, 1H	Lubbock
Davis, Jesse, G	Texon	Ellis, Mamie, 3L	Merkel
Davis, Kenneth, 1L	Lubbock	Ellis, Otis, 3L	Post
Davis, Laura Lee, 2L	Childress	Ellsworth, Heber, 4L	Lubbock
Davis, Marvin C., 3L	Plainview	Ely, E. Jack, 3L	Hermleigh
Davis, Milton G., 1E	Wellesley Hills, Mass.	English, Beatrice, 3L	Crosbyton
		Epley, James Filmore, 1E	Stanton
Davis, Ruby Irene, 1L	Clovis, N. Mex.	Erwin, Fannie Sue, 3L	Blum
Davis, R. V., 2E	El Paso	Eubanks, Edna Davis, 1L	Tatum, N. M.
Davis, Sam H., 4L	Jacksboro	Eubank, Mabel, G	Brownwood
Dawkins, E. F., 3A	Lubbock	Evans, Anna Cecil, G	Lubbock
Dawkins, Mrs. E. F., 3L	Pottsville	Evans, Betty Sue, 2L	Comanche
Day, E. Esten, 4L	Abilene	Evans, Charles, 1E	Mangum, Okla.
deAguirre, Mary, 1L	Munday	Evans, Cleo, 1L	Meadow
Dean, Mrs. Bert H., 3L	Anson	Evans, Gertrude, 2L	Meadow
Dean, Cecil, 2L	Lamesa	Evans, Mrs. Vivian C., 3L	Floydada
Dean, Horace, 3A	Dawson	Evers, Frances, 2L	Brady

Ewing, J. C., 4E	Denton	Gooch, Robert Henry, 3A	Lubbock
Fain, W. F., 3L	Springtown	Goode, O. R., 1L	Oiney
Fain, Mrs. W. F., 1L	Springtown	Goodloe, Jack, 4L	Lamesa
Fairchild, Everett, 3L	Hart	Goodwin, Elaine, 2L	Lubbock
Fairly, Fred, 3E	Lubbock	Goodwin, Lois, 2L	Lubbock
Fallon, Mark H., 4L	Goldthwaite	Gordon, G. G., 4A	Lubbock
Fargason, Mrs. Zelma, 2L	Plainview	Gordon, Mary Evelyn, 3H	Albany
Favor, Nancy, 2L	Sweetwater	Gordon, Sam, 1A	Itasca
Feazel, Lucille, 1L	Lorenzo	Gosch, Lenert, Chas., 4A	Flatonia
Feazel, Mary Ann, 3L	Lorenzo	Graves, Lottie, G	Ceevee
Fielden, Joe Mc., 1L	Amherst	Grady, Gene, 3E	Denton
Fike, Charles Edward, 1L	Slaton	Gray, Carlina, 2H	Rising Star
Fincher, Gladys, 2H	Chillicothe	Gray, George Howell, 3E	Wellington
Fisher, Hazel, 2H	Shallowater	Gray, Willard, 2E	Tyler
Floore, Mary Alice, 3L	Fort Worth	Grayson, David, 1L	Lamesa
Florence, Eunice, 3L	Slaton	Green, Clovis, 3L	Portales, N. Mex.
Flowers, Jack, 3L	Big Spring	Green, Edneth, 2H	Lubbock
Fonville, F. W., G	Lometa	Green, Ethel, 3H	Lubbock
Forbess, Ordiss, 3E	Lubbock	Green, Mrs. Herbert, 2L	Lamesa
Ford, Gertrude, 1L	Sudan	Green, J. Logan, 3A	Lubbock
Ford, T. A., 2E	Lubbock	Green, Mrs. J. Logan, 2L	Lubbock
Forehand, Artie B., 1L	Levelland	Green, Lola Beth, 3L	Roaring Springs
Forman, Ellis Ray, 4L	Teague	Green, Margaret, 3L	Lubbock
Forrest, Mrs. Anna Mae, 1L	Guthrie	Green, Mrs. Niladine Lewis, 3L	Austin
Forrester, Nannie Louise, 1L	Lubbock	Greene, Louise, 2L	Levelland
Fort, Beulah, 3L	Lovington, N. Mex.	Greenwood, Billie Williford, G	Comanche
Fort, Hazel Geneva, 2H	Silverton	Greenwood, Max H., G	Comanche
Foster, Altha, 2L	Lubbock	Greer, C. S., G	Slaton
Foster, Georgia Mae, 2L	Lubbock	Greer, Georgia Belle, 2L	Wilton
Foster, Mrs. Sara, 2H	Lubbock	Greer, Milton, 4L	Wison
Fowler, Fern Case, 3L	Lockney	Greer, Mrs. Milton, 1H	Stephenville
Fowler, Jeff, G	Lockney	Gregory, Wm. W., 3A	Lubbock
Fox, Mrs. Sivolah Bass, 2L	Tatum, N. Mex.	Gressett, Winnie Faye, 2L	Westbrook
Franklin, Gladys, 3L	Lampasas	Griffin, John, 1E	Brownwood
Franklin, Homer, G	Meadow	Griffis, Olive, 3L	Valera
Franklin, Mrs. Lucille, 3H	Meadow	Griggs, Joseph R., 4L	Lubbock
Frazier, Ruth Claire, G	Coodidge	Grimes, Cullen, 3L	Mineral Wells
Freeland, J. H., 3L	Lubbock	Grinstead, Ruth, 2L	Rochester
Freeman, Frances, G	Okmulgee, Okla.	Grunds, Althea Lee, 2L	Blue Ridge
Freeman, Mrs. Marion Evans, G	Houston	Groner, Mrs. Ethel, 3L	Dickens
Freeze, John H., 2A	Sweetwater	Groner, H. L., G	Dickens
Frost, Mary Ellen, 1L	Lubbock	Groves, R. T., G	Lubbock
Fryar, J. Harvey, 2L	Midland	Grundy, Jack A., 3E	Quitauque
Fryar, Lorene, 2L	Matador	Gulledge, Evelyn, 2H	Lubbock
Fudge, James, 2E	Dallas	Gulledge, Mrs. Mary, 2L	Lubbock
Fuller, Clayton, 2A	Floydada	Gulledge, Velda Beth, 3H	Lubbock
Fulton, Mary, 2L	Lubbock	Guthrie, Bradley L., 2L	Mullin
Furgeson, W. Royal, 2L	Lubbock	Guthrie, Harry L., 2E	Mesa, Ariz.
Gable, Mozelle, 3L	Lubbock	Hackney, Burton G., 1L	Tahoka
Gabrielle, S. H., 3E	Nashville, Tenn.	Hackney, Glenn T., 4A	Pickton
Gaines, Fred, 2L	Annona	Hackney, Ray James, 1L	Pickton
Gamel, Mary Lois, 4L	Lubbock	Hale, C. L., 1L	Lubbock
Gammill, Rankin, 2L	Lubbock	Hale, W. V., 2L	Lubbock
Garrett, Clarence L., 1L	Lubbock	Hall, Ewell, 4L	Memphis
Garrett, Leeta Mae, 3L	Lubbock	Hall, Gladys, 2H	Littlefield
Garrett, Mrs. Martha, 2L	Lubbock	Hall, Leslie, 3L	Stanton
Garrett, Wilson, 3L	Jayton	Hall, Lois Elizabeth, 3L	Quitauque
Garrison, Mrs. Lizzie Lou, 1L	Sprer	Hall, Louise, 2L	Gatesville
Garrison, Ward, 3L	Lubbock	Haman, Alice Leah, G	Mineral Wells
Gee, Mrs. Aleen, 3L	Smyer	Hamilton, Doyle, 3H	Huckabay
Gee, Clyde, 3L	Smyer	Hamilton, Mrs. Hal, 1L	Plainview
Gee, J. T., 4A	Carlton	Hammens, Anne, G	Gordon
Gelin, Leona, 4L	Lubbock	Hampton, Willie, 2L	Oilton
Gentry, Ella Joyce, 1L	Slaton	Hancock, Beulah, 2L	Tahoka
Gentry, Lillie, 2H	Albany	Hancock, Clemmie Mae, 2L	Mullin
Gentry, Lucile, 2L	Lubbock	Hancock, J. E., 3E	Lubbock
George, Bernice, 4H	Denton	Hancock, Louise, 2L	Tahoka
Gibbs, Myrtle, 3L	Lubbock	Handley, Leatha, G	Childress
Gibson, Mrs. Evaline, 3L	Lamp sas	Handley, Mildred, 2L	Lubbock
Gibson, G. T., 2E	Carlton	Hanes, W. T., 2L	Levelland
Gibson, Sarah, 3L	Lubbock	Hankins, Flake, 4E	Lubbock
Gilbreath, Vance H., 4L	Matador	Hannaford, M. G., 3L	Clyde
Gilkerson, Vonnelle, 4L	Lubbock	Hannaford, Mrs. M. G., 2L	Clyde
Gilliam, Hughes, 4L	Haskell	Harben, Mrs. Thelma, 3L	Farmersville
Gilliam, Jewel Laney, 4L	Munday	Hard, Laura, 3H	Shallowater
Glasscock, Mrs. Delia, 2L	Paint Rock	Hardesty, Corene, 3L	Lamesa
Gladdwell, Beatrice, 1L	Truscott	Hardesty, Joe, 1L	Lamesa
Godeke, Henry L., 3E	Lubbock	Harding, Fenton, 4E	Dallas
		Hardy, Lorene, 2L	Shallowater
		Hargis, Amelia, 4L	Lubbock
		Harkins, Clarice, 2L	Hermleigh



Harmon, Julia M., 4L	Idalou	Holley, Annie, 2L	McCamey
Harper, Bryan, 3E	Lubbock	Holley, V. C., G	Aspermont
Harper, Carl, 3L	Lubbock	Holliday, Alton W., 4A	Nashville, Ark.
Harper, Enos W., 3L	Wellington	Holly, Odis, 3A	Spur
Harper, Mrs. Enos W., 2H	Wellington	Holmes, Graham, 1L	Lubbock
Harred, Edith, 2L	Tokio	Holmes, Jessie, 1L	Lubbock
Harred, Hallie, 2L	Tokio	Holt, Geraldine, 2L	Breckenridge
Harred, Hazel, 1L	Tokio	Honey, Glensy, G	Lubbock
Harrell, Mary Bob, 2L	Lamesa	Hooper, Mrs. Floy F., 4L	Dallas
Harrell, Nadine, 1H	Lubbock	Hooten, Mrs. Emma, 2L	Shallowater
Harris, Erma Lois, 3L	Lubbock	Hooten, Maude L., 2L	Lubbock
Harris, Lucille, 2L	Munday	Hooten, R. L., G	Shallowater
Harris, Lucile, 2H	Shawnee, Okla.	Hooten, Richard W., 4L	Lubbock
Harris, R. E., 2H	Cleburne	Hopkins, H. F., 4E	Ladonia
Hart, Hugh, 3L	Damon	Hopper, John, 3L	Lubbock
Hartis, Essis Marie, 3L	Aquilla	Hopper, J. Sam, 4E	Welltown
Hartrick, Wade, G	Clovis, N. Mex.	Horne, Bernice, 1L	Richland Springs
Hartrick, Mrs. Wade, 2L	Clovis, N. Mex.	Horne, Evelyn, 2H	Richland Springs
Harvel, Gladys, 2H	Hale Center	Horstmann, Albert L., 4E	Buckholts
Hatchett, Chas. T., G	Lamesa	Houston, Chas. E., G	Lubbock
Hatheway, Mary Lucile, 2L	Fort Worth	Houston, Lucile, G	Lubbock
Havis, Maurine, 3H	Lubbock	Houston, Ruth Elizabeth, 1L	Plainview
Hawkins, Loma, 1L	Meadow	Howard, Lester, 1E	Baileyboro
Hawthorne, Nell H., G	Idalou	Howard, Marshall, G	Smyer
Hayden, Rubie Ethel, 2H	Pickton	Howell, Hobson, 3L	Paducah
Hayes, Elizabeth, G	Odessa	Howell, Mabel, G	Knox City
Haynes, Guy, G	Burleson	Howell, Mrs. Mae, 4L	Lubbock
Haynes, Mrs. Mattie L., 3H	Gorman	Howell, May Tom, 2H	Lubbock
Haynes, Nadine, 1L	Fluvanna	Hoyle, Mike, 2L	Roaring Springs
Hayes, Lelless, 3L	Lubbock	Hubbert, Lily, 2L	Olton
Hays, Odessa, 2L	Lubbock	Hubbert, Jasper, 3L	Olton
Hazel, H. C., 4L	Spur	Hudson, Laska Joy, 2L	Colorado
Hazelwood, Obara, 1L	Stanton	Hudson, Wellborn R., 2L	Dallas
Headstream, Verne, 1L	Ropesville	Huffaker, Calloway, 1L	Wilson
Headstream, Ray, 3L	Roby	Huffaker, Chloie, 3H	Wilson
Headstream, Bill, 1L	Ropesville	Hufstедler, Virginia, 3L	Lubbock
Hearn, Lesesne, 1L	Cuthbert	Hughes, Juanita, 3L	Millsap
Hearrell, Ruth, 4H	Lubbock	Hughes, Ola Irene, 3L	Lubbock
Heath, Geo. A., G	Friona	Hughes, W. F., 2A	Channing
Heath, Mrs. Geo. A., G	Friona	Huie, Jewell, 2L	McCauley
Heately, Evelyn Gail, 3L	Lubbock	Hull, Clarice, 4L	Lubbock
Heately, Rose, 3L	Lubbock	Hull, Doris, 2L	Lubbock
Heidel, F. L., 2L	Lovington	Hulsey, Ethel, 3L	Dickens
Heierman, Catherine, G	Imperial	Hulsey, J. W., G	Olton
Heierman, Daniel, 1A	Imperial	Humphries, Daisimay, 2L	Lubbock
Helms, Muriel, 3L	Jos. pine	Hunt, Kenneth, 2E	Canyon
Henderson, Eulala, 3L	Lubbock	Hunter, Glenn, 2A	Gilmer
Henderson, Gladys, G	Earth	Hurley, Mrs. Mary Frances, G	Lubbock
Henderson, Maurine, 3L	Lubbock	Hutchins, Artie L., 4E	Bellview, N. M.
Henry, Vern J., 1L	Knox City	Hutchinson, Joe C., 3L	Lubbock
Henson, Chas. A., 3E	Seymour	Hutchinson, Mary M., 2L	Lubbock
Henson, Douglas, 1L	Lubbock	Hutchinson, Ruth, 2L	Lubbock
Henson, Mrs. Douglas, 1L	Lubbock	Hutchinson, Tom, 1L	Lubbock
Herrell, Lynn, 2L	Seymour		
Herring, E. W., 4E	Mount Calm	Igo, Ina, 2H	Ralls
Herring, Mrs. Beulah, 3L	Shallowater	Inman, Maggie Lee, G	Hale Center
Herring, Margaret, 2L	Aspermont	Irvin, Nola, 4L	Aspermont
Herrod, Frances, 1L	Shallowater		
Hewett, R. C., 2E	Dallas	Jackson, Bettie Mae, 2L	Carbon
Hickey, Mary Bess, G	Commerce	Jackson, C. B., 3L	Groveton
Hicks, Bertha, G	Slaton	Jackson, Florence, G	Pampa
Hicks, Hortense, 3L	Roswell, N. Mex.	Jackson, Mrs. Floyd, 2L	Hurlwood
Hicks, J. Lawrence, 3A	Sudan	Jackson, Harvey, 3L	Roaring Springs
Hicks, Maude, 1L	Wheeler	Jackson, Mrs. H. H., 2L	Dalhart
Hicks, Maurine, 3L	Huckabay	Jackson, J. M., G	Houston
Hicks, T. B., 3A	Snyder	Jackson, Lucy Belle, 4L	Lubbock
Hightower, Eugene, 4L	Millsap	Jacques, Lois, 2L	Mineral Wells
Hill, Alta Mae, G	Blue Ridge	Jagers, Jo Jewel, 1L	Lehman
Hill, Basil, 4E	Lamesa	James, C. B., 4L	Lubbock
Hill, Ruby, 2L	Lubbock	James, Mrs. Jessie, 4L	Lubbock
Hinson, H. Houston, 3E	Lubbock	James, Marion, G	Lubbock
Hinson, Louise, 2L	Levelland	James, Maude R., 2L	Lubbock
Hitt, Sammie Marie, 3H	Lubbock	James, Philip, 4L	Lubbock
Hix, Argen, 2H	Wellington	Jamison, J. P., 3A	Garden City
Hix, Margaret, 2L	Wellington	Jarvis, Billy, G	Spearman
Hixon, Lois, 3L	Kerens	Jay, Mrs. Gwindolen, 2L	Turkey
Hobbs, Earl, 4L	Littlefield	Jeffres, Tennyne Maye, 1H	Snyder
Hobbs, Irene, 2L	Littlefield	Jeffres, Estelyne, 2L	Lubbock
Hoge, Harold, 1L	Dawson	Jeffres, Evelyn, 2L	Lubbock
Holcomb, Clara, 3L	Wellington	Jeffres, Lois, 3L	Lubbock
Holcomb, Murray L., 2L	El Campo	Jeter, Mrs. Bryan, 2L	Lubbock
Holden, Tom C., G	Tusculu	Jenkins, Reba, 3L	Sudan

Johnson, Alliene, 3L ----- Mahank  
 Johnson, Bowlden, 1L ----- Lubbock  
 Johnson, Charlie, 3L ----- Bryson  
 Johnson, Doris Ladd, G ----- Eastland  
 Johnson, Doris Mae, 2L ----- Lubbock  
 Johnson, Frank, G ----- Galveston  
 Johnson, Jack, 2A ----- Durn  
 Johnson, Lola Belle, 3L ----- Taoka  
 Johnson, Minnibel, 2L ----- Lubbock  
 Johnson, Nathan, G ----- Lubbock  
 Johnson, Paul, 1A ----- Levelland  
 Johnson, Tom W., G ----- Lovington, N. M.  
 Johnston, Dorothea, 2L ----- Crosbyton  
 Johnston, Edna, 2L ----- O'Brien  
 Johnston, H. A., 2L ----- Post  
 Johnston, J. B., 2A ----- Lubbock  
 Johnston, Louis, 2A ----- Crosbyton  
 Jones, Allyne, G ----- Seagraves  
 Jones, Mrs. W. B., 2H ----- Blanket  
 Jones, Girlie, 3L ----- Nevada  
 Jones, Helen M., 2L ----- Lubbock  
 Jones, J. V., 1L ----- Lubbock  
 Jones, Louise, 2H ----- Alernathy  
 Jones, Mary Watson, 3H ----- Silverton  
 Jones, Mavis, 1L ----- Tahoka  
 Jones, M. Woodson, 3L ----- Seagraves  
 Jones, Mildred Erle, 3L ----- Lubbock  
 Jones, Pauline, 3L ----- Snyder  
 Jones, R. L., 2A ----- Paint Rock  
 Jones, Ruth E., 4L ----- Abernathy  
 Jones, Mrs. T. J., 2H ----- Weatherford  
 Jones, Thelma, 3L ----- Stephenville  
 Jones, Truman, 3A ----- Poolville  
 Jones, W. Bernice, G ----- Banket  
 Jones, Wesley W., 2L ----- Lockney  
 Jordan, Sallie V., 2H ----- Lohm  
 Joseph, Edgar A., 2L ----- Cleburne  
 Joyce, Faye, 3L ----- Snyder  
 Justice, Mrs. John H., 2L ----- Loreuzo

Kane, Edna, 3H ----- Moran  
 Karr, Ray, 1A ----- Spur  
 Keaster, Effie Lou, G ----- Lubbock  
 Keaster, Vivian, 3L ----- Lubbock  
 Keeter, Mrs. Allen, 1L ----- Lubbock  
 Keith, F. M., 2L ----- Van Alstyne  
 Keller, Glenna, 3L ----- Lubbock  
 Kelley, J. H., G ----- Plainview  
 Kelly, Joe, 2L ----- Dallas  
 Kelly, J. Dyche, 1E ----- Lubbock  
 Kelsey, Samuel H., 2L ----- Lorenzo  
 Kemp, Rex, 1A ----- McCaulley  
 Kemp, Ruth, 1H ----- McCaulley  
 Kennedy, Paul, 3L ----- Estelline  
 Kerr, E. B., 2E ----- Lubbock  
 Kersey, Cecil, 4L ----- Amarillo  
 Key, Norvell, 2L ----- Wilson  
 Kilian, Ollie, 2L ----- Newport  
 Kimbrough, Ernestine, 3L ----- Athens  
 King, Arch L., 4E ----- Lubbock  
 King, Andy L., 2L ----- Lubbock  
 Kirk, E. Elizabeth, 3L ----- Blackwell  
 Kirkpatrick, Geraldine, 3L ----- Littlefield  
 Klein, Agnes, 3L ----- Los Angeles, Calif.  
 Knowles, Sidney, G ----- El Paso  
 Koonsman, Mrs. Sam, 2L ----- Dickens  
 Kral, Thos. T. Jr., 3L ----- Roby  
 Kuebel, Edgar, 3A ----- Spring Branch  
 Kuhn, Willet, 2E ----- Weatherford  
 Kyle, Medie, 2H ----- San Marcos

Lamance, B. R., Jr., 1L ----- Gorman  
 Lamance, Mrs. B. R., 1L ----- Gorman  
 Lancaster, David D., 2L ----- Clovis, N. M.  
 Lancaster, George M., 1L ----- Clovis, N. M.  
 Landrum, E. Corinne, 2L ----- Electra  
 Lane, Alma Viola, 1L ----- Lake Arthur, N. Mex.  
 Lane, Jan C., 1E ----- Lubbock  
 Lane, Margaret, 2H ----- Lake Arthur, N. M.  
 Lane, Pauline, 2L ----- Clarendon  
 Langford, George, 4L ----- Fr. Bell  
 Lassitter, Ottie Maud, 3L ----- Spur

Langford, Georgia Mae, 1L ----- Post  
 Law, Juanita, 3L ----- Lubbock  
 Lawley, Lola, 2L ----- Big Spring  
 Lawley, Opal, 2L ----- Big Spring  
 Lawrence, Ben, 4L ----- Silvertown  
 Lawrence, Ewell, 2L ----- Peacock  
 Lawrence, Opal, 2L ----- Peacock  
 Lawson, Florence, 4L ----- Lubbock  
 Lawson, Helen Louise, 3H ----- Lubbock  
 Lawson, Layton, 1A ----- Lubbock  
 Lawson, Naomi, 3L ----- Post  
 Lawson, W. D. Jr., 1L ----- Lubbock  
 Leach, Donald B., 4E ----- Mineola  
 Leach, Henry R., 1A ----- Ballinger  
 Leatherman, Virginia A., 1L ----- Breckenridge

Lee, Ebbie, 3L ----- Lamesa  
 Lee, Ernest, 2E ----- Lubbock  
 Lee, Hazel, 3H ----- Prairie Grove, Ark.  
 Lee, Josie Kay, 1L ----- Lubbock  
 Legg, Peyton, 2A ----- Dickens  
 Leidigh, Mary, 2H ----- Lubbock  
 Leslie, Elhorna, 3L ----- Grand Prairie  
 Lewis, Novis, 3H ----- Lubbock  
 Lieske, Bertha, 1L ----- Crosbyton  
 Ligon, Arvy G., G ----- Fort Worth  
 Liljeblad, Murrell, 2L ----- Ames  
 Lindsey, Mrs. D. T., 4L ----- Lubbock  
 Lindsey, Byron, 4L ----- Denton  
 Lindsey, John A. Jr., 2E ----- Lubbock  
 Lindsey, Mrs. W. W., 1L ----- Lubbock  
 Link, Geraldine, 2L ----- Tuxedo  
 Link, Ruth, 4H ----- Taoka  
 Linn, Dollimaie, 3H ----- Lubbock  
 Lippincott, George, 2L ----- Gage, Okla.  
 Lippincott, O. B., 1L ----- Gage, Okla.  
 Liston, Lovic H., 4L ----- Ringgold  
 Little, Woodrow, 1L ----- Lubbock  
 Littlefield, Alyce, 3L ----- Slaton  
 Lockwood, Daisy, G ----- Lubbock  
 Lombard, Ruth V., 2L ----- Redlands, Calif.  
 Lomax, Gertrude, 1H ----- Meridian  
 Long, Alla Evelyn, 2L ----- Ranger  
 Long, George B., 1L ----- Lubbock  
 Long, Mrs. Maud, 2L ----- Roaring Springs  
 Longbotham, Harold, 1L ----- Lubbock  
 Longbotham, H. L., 1L ----- Levelland  
 Looney, Catherine, 1L ----- Paducah  
 Loughridge, James A., 3E ----- Waco  
 Loughridge, Mrs. J. A., G ----- Waco  
 Loughridge, Mary, 3H ----- Waco  
 Loveless, Robert Wells, G ----- Lamesa  
 Lovell, H. L., 3L ----- Dickens  
 Lovell, Mrs. Iris, 2L ----- Dickens  
 Loving, John W., 3E ----- Fortian  
 Lowe, Evelyn, 1H ----- Brownfield  
 Lowe, Vernie Thompson, 1H ----- Plainview  
 Lowery, E. J., G ----- Lubbock  
 Lowery, Robert D., 4L ----- Lubbock  
 Lowrance, W. E., 3L ----- Knox City  
 Lucas, Fannie L., 3L ----- Wellington  
 Lunn, Wacel, 4L ----- Hollis  
 Lupton, Katherine, 3L ----- Shallowater  
 Lupton, Louise, 3L ----- Shallowater  
 Lynn, Artell J., G ----- Oklaunion  
 Lynn, Mrs. Doris S., 2L ----- Oklaunion

McAdams, Carl, 3E ----- Gordonville  
 McCleskey, Madie L., G ----- Lipan  
 McAfee, L. F., G ----- Sherman  
 McAfee, Mrs. L. F., 1H ----- O'Donnell  
 McAllister, Mrs. Ione, 4H ----- Lubbock  
 McAllister, Winifred, 1L ----- Tuxedo  
 McArthur, Floyd, 3L ----- Spur  
 McArthur, Herman, 2A ----- Spur  
 McAuley, Aubrey, 4L ----- Saltillo  
 McCarty, Aline, G ----- Lubbock  
 McCarty, Mrs. W. D., 2L ----- Frost  
 McCay, Bonnie, 1L ----- Idalou  
 McCay, Robbie, 1L ----- Idalou  
 McClain, Carl, 3L ----- Lubbock  
 McClain, Hope, 1L ----- Spur





Olson, Lucille McElreath, 3L Sweetwater  
 O'Neal, Alta, 2H -----Moline  
 O'Neal, Ina Faye, 2H -----Moline  
 O'Neal, Mayme, 2L -----Moline  
 O'Neill, Charles, 2L -----Lubbock  
 O'Neill, Nance, G -----Lubbock  
 Ooley, Joyce, 2L -----Plainview  
 Orr, Catherine, 3L -----Hillsboro  
 Oswald, Mrs. J. Roy, 3L -----Plainview  
 Oswalt, Imogene, 2L -----Lubbock  
 Overstreet, Corinne, 2H -----Lubbock  
 Overstreet, Myrtle, 2L -----Roaring Springs  
 Owen, Joe H., 1L -----Lufkin  
 Owen, Mrs. Joe H., 1L -----Muleshoe  
 Owen, Lewis, 3L -----Lehman  
 Owen, Mrs. Lewis, 2L -----Littlefield

Paige, Mrs. R. E., 2L -----McLean  
 Paige, Russell E., G -----McLean  
 Palmore, John, 4L -----Ravenna  
 Pancake, Michie, 2L -----Hico  
 Pannell, H. C., G -----Logan, N. Mex.  
 Park, Lillian, G -----Knox City  
 Parker, Bob, G -----Lucille, N. Mex.  
 Parker, Cecil, 3L -----Goldthwaite  
 Parker, Lona Inez, 3H -----Goldthwaite  
 Parker, M. E., 4E -----Lucille, N. Mex.  
 Parker, Ruth, 3H -----Goldthwaite  
 Parker, Thalia, G -----Lubbock  
 Parker, Opal, 2L -----Miles  
 Parrack, Alma, 4L -----Lubbock  
 Patten, Maurine, 3L -----Dallas  
 Patterson, Carl E., 4L -----Ada, Okla.  
 Patterson, Blanche Ely, 2L -----Hermleigh  
 Patterson, Mrs. J. O., 3L -----Lubbock  
 Patterson, Johnnie Mae, 4L -----Plains  
 Patterson, M. L., 4L -----Big Spring  
 Patton, Mrs. Carl, 1L -----Lubbock  
 Patty, W. E., 4L -----Lubbock  
 Payne, Evelyn, 4H -----Pine Bluff, Ark.  
 Payne, V. S., G -----Abernathy  
 Periman, Vera, 3H -----Dermott  
 Perkins, Myra Ann, 2L -----Lubbock  
 Perrin, Dick, 3A -----Floy, Ariz.  
 Perry, Kyle Edward, 1E -----Liberty  
 Peterson, Luther, 1L -----Lamesa  
 Peterson, Vaughn E., 1L -----Delta  
 Peterson, W. E., 2L -----Lamesa  
 Pevehouse, Myrtle, 4L -----Lubbock  
 Pfaff, Martha, G -----Gainesville  
 Pickett, Florence, G -----Lubbock  
 Pickett, Inez, 3L -----Ranger  
 Pickett, J. B., 3L -----Lampasas  
 Pickett, Lyall, 3L -----Post  
 Pickett, Violetmae, G -----Lubbock  
 Pierce, R. Q., 3L -----Lubbock  
 Pinson, Maude, 3L -----Dublin  
 Pittman, Forrest, 1L -----Tatum, N. Mex.  
 Plain, Billie, 2L -----Lubbock  
 Poer, Edna Louise, 3H -----Pecos  
 Polk, Jonnie, 2L -----Lubbock  
 Pool, Harvey D., 3A -----Lubbock  
 Pool, Juanita, 3A -----Lubbock  
 Pool, Phyllis, 2L -----Lubbock  
 Poole, Warren, 3L -----Floydada  
 Porter, Gladys, 2L -----Lubbock  
 Potts, Grace, G -----Lubbock  
 Powell, Carolyn, G -----Lubbock  
 Powell, Owen, 1E -----Ballinger  
 Powers, Hubert P., 3L -----Colorado  
 Powers, Mrs. Vivian G., 4L -----Colorado  
 Powers, Warren, 3L -----Lubbock  
 Prather, Harold, 1L -----Greenville  
 Preston, Howard G., 3A -----Sudan  
 Prestwich, Arthol Thomas, 1L -----Idaho Falls, Ida.

Price, Mrs. E. L., 1L -----Lubbock  
 Price, Marie, 3L -----Lubbock  
 Prim, Margaret Dell, 4L -----Snyder  
 Prosser, Mrs. Erma, 3L -----Lubbock  
 Puckett, Margaret, 4H -----Lubbock  
 Purcell, D. Owen, 1L -----Coleman  
 Purington, Mrs. Maureen, G -----Austin

Puryear, Mrs. Edna, 3L -----Weatherford  
 Puryear, Lela D., 3L -----Lubbock  
 Puryear, Raymond, 4A -----Poolville

Quinlan, Gail, 2L -----Lubbock

Raley, Sherrill, 2L -----Bryson  
 Rankin, C. G., G -----Crosbyton  
 Rankin, J. M., 3L -----Ralls  
 Rankin, Louise, 4L -----Abernathy  
 Rankin, Mrs. Madie, 3L -----Crosbyton  
 Rankin, Mrs. Vera, 2L -----Lubbock  
 Ransdell, Clifford, 1E -----Breckenridge  
 Rash, Lloyd, 1L -----Peacock  
 Ratliff, Corene A., 4H -----Lubbock  
 Ratliff, Kary, 2E -----Lubbock  
 Ratton, Sue Evelyn, 2L -----Anna  
 Rayburn, Clara Mae, 2L -----Roscoe  
 Read, Shelby G., 3L -----Henderson  
 Reddell, Marie, 2L -----Tulia  
 Redford, T. C., 3L -----Brownfield  
 Redford, Mrs. Sadie Cox, 4L Brownfield  
 Redwine, Mrs. E. L., 1L -----Swearingen  
 Reed, Clarence, 4L -----Corsicana  
 Reed, Clayton, 4L -----Lubbock  
 Reed, May, 3H -----Vernon  
 Reed, Myrtle, 3L -----Fort Worth  
 Reed, Ruth M., 4L -----Lubbock  
 Reesing, Jewell S., 2L -----Orabi, Ariz.  
 Reeves, Cordell, 4L -----Lubbock  
 Reeves, Helen Ruth, G -----Lubbock  
 Reeves, Lloyd S., 4E -----Dallas  
 Renfro, Marvin, 4L -----Kirvin  
 Rex, Bessie, 1L -----O'Brien  
 Reynolds, Ernestine, 4L -----Lubbock  
 Reynolds, Mrs. Mayme B., 2L Dickens  
 Rhoades, Mrs. Lida, 3L -----Snyder  
 Rice, Harry W., G -----Throckmorton  
 Rice, Lucille, 4H -----McLean  
 Rich, Fred T., 2L -----Wofforth  
 Richardson, Georgina, 2L Portales, N. M.  
 Richardson, Ruth, 1L -----Portales, N. M.  
 Richey, Mary, 3L -----Roxton  
 Richey, W. L., 2L -----Haskell  
 Richter, Jimmie, 1L -----Taylor  
 Riethmayer, L. C., 3L -----Lamesa  
 Riggins, Lonnie, 4E -----Groom  
 Rigney, Sterling, 1L -----Kansas City, Kans.  
 Riley, Evans, 1E -----Kansas City, Mo.  
 Riley, Miss T., G -----Briscoe  
 Risinger, Mrs. Thad, G -----Lubbock  
 Roach, Harriette, 3L -----Lubbock  
 Robbins, Lydia, 4L -----Lubbock  
 Roberson, H. L., 2L -----Lorenzo  
 Robert, Rachel, 4L -----Lubbock  
 Roberts, Homer, 4L -----Sweetwater  
 Roberts, Joe Ben, 1E -----Crowell  
 Roberts, Rector P., 4L -----Dallas  
 Robertson, Mrs. Emma, 1L -----Wheeler  
 Robertson, Homer G., 4L -----Wheeler  
 Robertson, Margaret C., 3E -----Lubbock  
 Robinson, Adelaide, 3L -----Corsicana  
 Robison, Catherine, 2L -----Lubbock  
 Robison, Jennie, G -----Lubbock  
 Rodgers, Artie, 2L -----Pampa  
 Rodgers, D. V., 3L -----Gorman  
 Rodgers, Mrs. D. V., 2L -----Gorman  
 Rodgers, Lilah Gaye, G -----Lubbock  
 Rodgers, Robt. S., 4L -----Lubbock  
 Rogers, Alice Muse, 4L -----Lubbock  
 Rogers, Carl P., 3L -----Houston  
 Rogers, Ilia A., 1L -----Lubbock  
 Rogers, Jesse, 2E -----Houston  
 Rogers, Velma, 3L -----Trent  
 Rogers, Waltrude, 3L -----Lubbock  
 Rogers, Wandene, 2L -----Levelland  
 Rollo, Kenneth, 3L -----Lubbock  
 Romans, Rozella, 4H -----Lampasas  
 Ross, Arvil G., 4L -----Coolidge  
 Roussel, W. A., 3E -----Brownwood  
 Royalty, Mrs. W. W., 1L -----Lubbock  
 Ruckman, Loyd, 3L -----Vernon  
 Ruckman, Roy, 3L -----Vernon

Ruhman, J. P., 4E	Ballinger	Smith, Mrs. Hettie Murrell, 2L	Shallowater
Rushing, Dorothy, 4L	Lubbock	Smith, J. P., 2A	Littlefield
Russell, Ethel Mae, G	Lubbock	Smith, James, 1E	Slaton
Rutledge, David, 1L	Fort Worth	Smith, John Holman, 2E	Coleman
Rutledge, Ruth, 1L	Floydada	Smith, Mrs. Lois, 2H	Coleman
Sale, Woodford, 3L	Stanton	Smith, Lucille, 2L	Gem
Sams, Van Earl, 3E	Benjamin	Smith, Mae, G	Adamsville
Samson, Gertrude, 2H	Post	Smith, Mary, 2L	Tyler
Sanders, Gladys, 3H	Sweetwater	Smith, Maxine, 2L	Lubbock
Sanders, J. Oran, 4E	Big Spring	Smith, Nora Leona, 3H	Throckmorton
Sanders, O. L., 4L	Lorenzo	Smith, Preston, 3L	Lamesa
Sanders, Mrs. O. L., 3L	Lorenzo	Smith, Ruth, 1L	Tyler
Samson, Myrtle, 4L	Lubbock	Smith, Mrs. Voyd, 3L	New Home
Saunders, Mrs. Lillian, 2L	Lubbock	Smith, Evelyn Willoughby, G	Lovington, N. Mex
Scarborough, B. W., 3L	Lubbock	Smithson, Mrs. Fay Eidson, 1L	Stanton
Scharnberg, Curtis, 1L	Lubbock	Sneed, Mrs. H. A., 2L	Lubbock
Schofield, Arnold, 3L	Lubbock	Sneed, Louise, 4L	Dalhart
Scott, Allie V., 2L	Buena Vista	Snider, Viola, 3L	Crosbyton
Scott, B. H., 3L	Crosbyton	Snider, Willie, 3H	Crosbyton
Scott, Mrs. B. H., 4H	O'Donnell	Snodgrass, Floyce, 2L	Lubbock
Scott, E. B., 2L	Smyer	Sollis, L. J., 2L	Sherman
Scott, Kathryn, 2L	Stanton	Song, Laura, 3H	San Fernando, Calif.
Scott, Mary Alyce, 2L	Lubbock	Southworth, Herbert R., 4L	Portersville, Calif.
Scott, Mary Old, 3L	Smyer	Sowder, Mrs. Eppie, 4L	Lubbock
Scott, Nina, 1L	Lamesa	Spacek, Clarence, 2A	Granger
Scott, Ruby, 2L	Spur	Sparkman, Eirys, 3H	Coleman
Scott, T. P., 2A	Stanton	Sparks, A. J., 2L	Bula
Scudder, Doris, 2H	Graford	Sparks, Leon O., 3E	Saltito
Scoggins, Mae Dell, 3L	Aspermont	Spears, Winnie, 2L	Tahoka
Seale, Allen B., 3L	Eastland	Speer, Mrs. Edith L., 2L	Morse
Seale, Lela, 3L	Lorenzo	Speer, J. B., G	Morse
Seale, Orris, 1A	Lorenzo	Spencer, Gaster R., 4L	Lubbock
Sears, Marie, G	Lipan	Spykes, Hazel, 3L	Hermleigh
Sears, Mrs. Rubie, 1L	Bula	Standefor, Gertrude, 3L	Meridian
Senter, Mary Frances, 3L	Lamesa	Stallings, Kathryn, 2L	Post
Server, Arnolia, 2L	Rochester	Stanfield, Stella, G	Lamesa
Settle, J. Doyle, 4L	Abernathy	Stanfield, Anabel, 3L	Lubbock
Settle, L. Edwin, 3L	Ralls	Stanfill, J. T. Jr., 3E	Lubbock
Settle, Mrs. Rosa, 2L	Ralls	Stark, Florence, 2L	Lubbock
Seymour, H. T., 3L	Poolville	Stark, Mrs. Jewell, 2H	Hereford
Seymour, Mrs. H. T., 1L	Poolville	Stavelly, Vera, 1L	Fluvanna
Shannon, Byron, 2E	Lubbock	Stephens, Blanche, 2H	Gorman
Shannon, Katherine, 1L	Levelland	Stephens, M. F., G	Shallowater
Shannon, Mary Lucy, 2L	Levelland	Stephens, Olene, 2L	O'Donnell
Shaw, Christine, 4H	Crosbyton	Sterrett, Philip, 2E	Abernathy
Shelby, Dee Alva, 3L	Lubbock	Stiles, Zona, 3L	Annona
Shelby, Juanita, 3H	Lubbock	Still, Mrs. Hester Graham, 4L	Italy
Shepard, John L., 4A	Lubbock	Still, Wilmer E., G	Italy
Shepherd, Donald E., 2L	Memphis	Stine, J. Bryan, 3A	Amarillo
Sherrill, Clarice, 3L	Seagraves	Stokes, Drexel, 1E	Lingleville
Sherrill, Maggie Mae, 2L	Seagraves	Stone, Greta, 1L	Vernon
Shettle, Olyrie, 4L	Tahoka	Stover, S. S., G	Desdemona
Shields, Doris, 2H	Commerce	Straley, Edith, 1L	Lubbock
Shinn, Mrs. John C., 4L	Plainview	Strawn, James Horace, 1A	Littlefield
Shockley, George, 2E	Breckenridge	Strickland, Chester, 3L	Kress
Shockley, Mrs. George, G	Breckenridge	Strickland, Mrs. Chester, 2L	Kress
Short, Eddie L., 2L	Hurlwood	Strickland, J. D., 3A	Silverton
Shotwell, Prince Elmer, G	Breckenridge	Stringer, Verlena, 2L	Thalia
Shwalter, Ray L., G	Lubbock	Struve, Arno, 3L	Abernathy
Shy, Vivian E., 1L	Cheyenne Wells, Colo.	Sullivan, Ruth, 3L	Fort Worth
Simpkins, Jewell, 3L	Ralls	Summerlin, Lois, 3L	Lamesa
Simmons, H. D., 3H	Carlsbad, N. Mex.	Swan, W. F., 3L	Mount Pleasant
Simmons Verma, 4L	Stephenville	Tankersley, Hattie, 2L	Colorado
Simpson, Modelle, 4L	Lubbock	Tatum, John E., 1E	Waco
Sims, Aulsie, 2L	Personville	Taulman, Parker H., 3L	Fort Worth
Singleton, Mrs. J. T., 1L	Slaton	Taylor, Alex, 4L	Tahoka
Skeen, Maud Dee, 4L	Lubbock	Taylor, Mrs. Alex, 2L	Tahoka
Slough, Julia, 2L	Wellington	Taylor, Carence L., 1L	Childress
Smallin, Guy V., 2L	Lorenzo	Taylor, Clarice, 3L	Paducah
Smallin, Thera Fry, 3L	Lorenzo	Taylor, Mrs. Fannie McAdams, 2L	Olney
Smith, Mrs. Alice Lindsey, 3L	Rogers	Taylor, Garland, 2L	Olney
Smith, Ann, 1L	Lubbock	Taylor, Joe B., 2A	Big Spring
Smith, Arland, 2A	Colorado	Taylor, Mrs. J. Curtis, 3L	Muleshoe
Smith, Mrs. Bessie Lee, G	All any	Taylor, Joe F., 2L	Amarillo
Smith, Chester, 1L	Tahoka	Taylor, J. H., G	Ralls
Smith, Dewitt T., G	Albany	Teague, Joyce, 4H	Crossroad, N. Mex.
Smith, Mrs. E. S., 3L	Lorenzo	Teal, Bill, 4L	Enochs
Smith, Faye, 2L	Post		
Smith, Mrs. F. P., 3L	Abilene		
Smith, Mrs. Frank, 2L	Crosbyton		

Terrell, Byron, 2E ----- Lubbock  
 Terrell, Royal, G ----- Floydada  
 Terry, Estelle, 2L ----- Trent  
 Thacker, Elizabeth, 2L ----- Peetersburg  
 Thomas, Bonnie, 3L ----- Lubbock  
 Thomas, Charles E., 2L ----- Lubbock  
 Thomas, Mrs. Gladys Webb, 1L Lubbock  
 Thomas, James D., 1L ----- Lubbock  
 Thomas, Mrs. Kathryn, 2L ----- Wink  
 Thomas, Leslie, 1L ----- Crowell  
 Thomas, M. R., 3L ----- Wink  
 Thomas, Wm. T., 2E ----- Lubbock  
 Thompson, Ruth Anna, 3H ----- Lubbock  
 Thornton, Bates, 2E ----- Lubbock  
 Thurman, Stella K., 3L ----- Lubbock  
 Tidwell, J. W., 3L ----- Silverton  
 Tipps, Rob, 4L ----- Lubbock  
 Tittle, Clyde, 4L ----- Hillsboro  
 Todd, Lucille, 2L ----- Mies  
 Toombs, Mrs. Lois, 2L ----- Morton  
 Trachta, Anna Marie, 3L ----- Muenster  
 Tracy, Robert L., 1L ----- Houston  
 Trostle, N. E., G ----- Shan rock  
 Trotter, Genevieve, 1L ----- Lubbock  
 Trotter, Marie, 3L ----- Lubbock  
 Tucker, Woods, 4E ----- Ovalo  
 Tunnell, Amoret, 4L ----- Duffau  
 Tunnell, Fleda, 3L ----- Duffau  
 Tunnell, Lenore M., 3L ----- Tahoka  
 Turner, Earl H., G ----- Lubbock  
 Turner, Mrs. J. F., 3L ----- Santa Anna  
 Turner, Cressie Ann, 3L ----- Post  
 Turner, John F., 1E ----- Santa Anna  
 Turner, Rowena, 3L ----- Lubbock  
 Turner, J. C., 3L ----- Lubbock  
 Turney, Mrs. J. C., 2L ----- Lubbock

Ullrich, Anton, 3E ----- Waco  
 Underwood, Hattie, 3H ----- Rochester  
 Underwood, W. R. Jr., 3E ----- Platt  
 Underwood, Mrs. Zeida Ray G. Lubbock

Valentine, R. K., G ----- Socorro, N. Mex.  
 Vandagriff, Dorothy, 1L ----- Big Spring  
 Vanderford, Chrystel, 2L ----- Shelds  
 Vannerson, Jim, G ----- Tulia  
 Vannerson, Mrs. Leona, 1L ----- Tulia  
 Vannerson, Lucian, 4L ----- Tulia  
 Vannoy, Clifford, 4L ----- Lubbock  
 Vannoy, M. P., G ----- Lubbock  
 Vardeman, Pearl, 2H ----- Richland Springs  
 Vaughan, Leroy W., 4L ----- Lubbock  
 Vaught, Clemmie Jane, 4L ----- Sliton  
 Vialile, Mary, 1L ----- Levelland  
 Von Rosenberg, Lessie Mae, 1H Lubbock  
 Vowell, Lois, 2L ----- Robert Lee

Wade, Lois, 1L ----- Snyder  
 Wade, Lucy Mae, 1L ----- Spur  
 Waggoner, Woodrow, 2E ----- Ranger  
 Waghorn, Arthur C., 3E ----- Lubbock  
 Wakeland, Mary Estelle, 4L ----- Milford  
 Walker, Katie, 2L ----- Overton  
 Walden, Vada, 3L ----- Lubbock  
 Wales, Eula Marie, G ----- Georgetown  
 Wales, Lola Fae, G ----- Georgetown  
 Walker, Eunice, 4H ----- Hereford  
 Walker, Tylen, 1L ----- Levelland  
 Wall, Clayton Payne, G ----- Vernon  
 Wall, Mrs. C. P., 4L ----- Teague  
 Waller, John A., 3L ----- Indio, Calif.  
 Waller, Ray L., 3L ----- Pickton  
 Walling, Elwyn, 2L ----- Big Spring  
 Walls, Mrs. Margaret, 1L ----- Lanessa  
 Walls, Lena, 2L ----- Texhoma, Okla.  
 Ward, Dora, 4H ----- Canyon  
 Ward, Dycie Edith, 1L ----- Roscoe  
 Ward, Lewis, G ----- Kaufman  
 Ward, Winnelle, 2H ----- Lubbock  
 Wardlow, Louise, 1L ----- Ballinger  
 Wardlow, Malcorine, 2L ----- Ballinger  
 Ware, R. C., G ----- Lovington, N. Mex.

Warren, J. Irwin, G ----- San Angelo  
 Warren, Mary E., 1L ----- Cleburne  
 Waters, G. Dallas, 2L ----- McLean  
 Watkins, Ira, 3L ----- Meadow  
 Watkins, Orville R., 1L ----- Meadow  
 Watson, Pimpe, 3L ----- Lubbock  
 Watson, Jonny, 2L ----- Hermleigh  
 Watson, K. D., 3L ----- Pride  
 Watson, Melba, 3L ----- Lubbock  
 Watson, Mrs. Pearl, 3L Bentonville, Ark.  
 Watson, Wendell, 1L ----- Lubbock  
 Watson, Tom V., G ----- Lubbock  
 Watts, Willie Clayton, G ----- Lubbock  
 Weaver, Erma Joy, 1L ----- Lubbock  
 Webb, Della D., 3L ----- Ellington, Mo.  
 Webb, J. R., 1L ----- Henderson  
 Webb, Mrs. John R., 2L ----- Athens  
 Webb, Lois, 2L ----- Portales, N. Mex.  
 Webb, Mrs. Lois, 1L ----- Abernathy  
 Webb, Holmes, G ----- Hamlin  
 Webb, H. P. Sr., G ----- Olton  
 Webb, M. W., 2L ----- Hamlin  
 Wedeking, Ruby, 1L ----- Stamford  
 Wells, Muri, 1L ----- Lubbock  
 West, Milton, 2L ----- Athlene  
 Westerman, Mrs. Lucile, 3H ----- Pioneer  
 Whalen, Mary Virginia, 1L ----- Lubbock  
 Wharton, Leona, 2H ----- Lubbock  
 Whatley, Effie, 1L ----- Meadow  
 Whatley, Jessie Mae, 2L ----- Meadow  
 Wheeler, Alva, 2L ----- Merkel  
 Wheeler, Mary Ethel, 4L ----- Levelland  
 White, Genevieve, 2L ----- Lubbock  
 White, Lillie M., 3H ----- Stephenville  
 White, Mrs. Lola R., 1L ----- Aberdeen  
 White, M. R., G ----- Springerville, Ariz.  
 White, Sam, 2L ----- Aberdeen  
 White, Mrs. T. A., 1L ----- Lubbock  
 White, Turner D., G ----- Uvalde  
 Whitehurst, J. G. Jr., 3E ----- Houston  
 Whitley, Cloedell, 3L ----- Lubbock  
 Whitis, Abe M., G ----- Kempner  
 Wiggins, A. M., 2E ----- Lubbock  
 Wilder, Wm., 2E ----- Pampa  
 Wilhelm, Mrs. D. J., 2L ----- Lubbock  
 Wilhite, Clarence A., 3L ----- Wellman  
 Willie, Chas. L., 3E ----- Tyler  
 Wilke, Elouise, 3H ----- Lubbock  
 Wilkens, Mrs. Ed, 2L ----- Sweetwater  
 Wilkins, Martha F., 2L ----- Lubbock  
 Wilkes, Orby A., 4E ----- Floydada  
 Wilkins, Neal, 3L ----- Lubbock  
 Wilkins, Mrs. W. I., 2L ----- Lubbock  
 Wilkinson, Zada, 1L ----- Throckmorton  
 Wilks, Pauline, 1H ----- Lubbock  
 Wilks, Wendell, 1L ----- Lubbock  
 Wilks, Wilton, 3L ----- Plainview  
 Willard, Lola Irene, 2L ----- Ralls  
 Williams, Helen, 1L ----- Rule  
 Williams, Johnie E., 3L ----- Mulin  
 Williams, R. L., G ----- Snyder  
 Williams, Mrs. R. L., 4L ----- Snyder  
 Williams, Welber, 3L ----- Gorman  
 Williamson, Mrs. B. G., 3L ----- Lubbock  
 Williamson, Mrs. Dona, 1L ----- Freeport  
 Williamson, James E., G ----- Freeport  
 Williamson, J. C., 3L ----- Lubbock  
 Willingham, Adelyn, G ----- Lubbock  
 Willingham, Carl H., G ----- Lubbock  
 Willingham, Roberta, 2L ----- Lubbock  
 Willingham, W. O., 2L ----- Lubbock  
 Willis, Bonnie, 3H ----- Wellington  
 Willis, Louise, 3H ----- Wellington  
 Wilmeth, Donna, 3L ----- Lubbock  
 Wilmeth, Hazel, 3L ----- Lubbock  
 Winan, Mittie, 2L ----- Roscoe  
 Winn, H. R., 2E ----- Commerce  
 Winstead, Helen, 4H ----- Jermyn  
 Withers, Mrs. Gertrude V., 1L -----  
 Witt, I. R., G ----- Sweetwater  
 Witt, Mrs. I. R., 3L ----- Post

Wolf, Mina M., 4L ----- Stamford  
 Wolfarth, Louise, 4L ----- Lubbock  
 Womack, Recie, 1A ----- Crowell  
 Wood, Homer A., 2L ----- Caddo  
 Wood, Mrs. H. A., G ----- Mineral Wells  
 Wood, Mrs. Iola N., 3L ----- Tahoka  
 Wood, N. E., 2A ----- Tahoka  
 Wooden, H. A., 3L ----- Waxahachie  
 Wooden, Mrs. H. A., 2L ----- Waxahachie  
 Woolam, M. O., 4L ----- Levelland  
 Woolam, Mrs. Newell, 3L ----- Levelland  
 Woolwine, Vance N., 3L ----- Fort Worth  
 Word, Edith L., 3H ----- Ozona  
 Wright, Juanita, 2L ----- Post  
 Wright, Lallah, 3L ----- Big Spring

Wyatt, Ralph, 2L ----- Levelland  
 Wylie, Painter C., 4A ----- Valley View  
 Wynn, Frances, 2H ----- Lubbock

Yates, W. M., 1L ----- Pride  
 Young, Elizabeth, 3L ----- Bowie  
 Young, L. D., 4L ----- Jonesboro  
 Young, Leslie, 2L ----- Lubbock  
 Young, Thomas, 1E ----- Lubbock  
 Young, Mrs. Will S., 3L ----- Bowie  
 Youngblood, Irene, 2L ----- Altus, Okla.

Ziegler, Mrs. Roland, G ----- Plainview  
 Zorns, Tom, 2L ----- Meadow

## REGISTER OF STUDENTS

### Session of 1932-33

Aars, Pernell, 3A ----- Cranfills Gap  
 Abbott, Lavell, 2E ----- Lubbock  
 Abernathy, Agnes, 2H ----- Lubbock  
 Abington, Edward Gordon, 1L ----- Childress  
 Abraham, Malouf, 3L ----- Canadian  
 Adams, Donny Lou, 1L ----- Lubbock  
 Adams, Douglas, 1L ----- Lubbock  
 Adams, Erie Dell, 2L ----- Lubbock  
 Adams, Gerald, 1L ----- Abernathy  
 Adams, Isabel, 1H ----- Lubbock  
 Adams, Margaret Rose, 1L ----- Levelland  
 Adams, P. O., 1E ----- Powell  
 Adamson, Vera Nadene, 1L ----- Post  
 Adcock, Claryce, 1L ----- Lubbock  
 Adkins, Freddie, 3H ----- Lubbock  
 Adkisson, Alfred J., 3L ----- Lubbock  
 Agnew, Jack, 1E ----- Rising Star  
 Ahrens, Natalia, 1H ----- Wilson  
 Albin, Ferrel, 1L ----- Spur  
 Alcorn, Arnold, 1E ----- Slaton  
 Alcorn, D. L., 1A ----- Alhambra, Calif.  
 Aldridge, R. H., 2A ----- Saint Jo  
 Alexander, Alma, 2L ----- Lubbock  
 Alexander, Forrest B., 2E ----- Eldorado  
 Alexander, Jack, 3L ----- Jayton  
 Alexander, Jennie Beth, 1L ----- Sweetwater  
 Alexander, Mary, 3L ----- Lubbock  
 Alexander, Morris, 3L ----- Temple  
 Alford, Morris, 1L ----- Slaton  
 Alger, Faye R., 3L ----- Seminole  
 Allen, Inez, 2L ----- Lubbock  
 Allensworth, Hubert, 2L ----- Lubbock  
 Allison, Billie, 2E ----- Brownwood  
 Allison, Douglas, 3E ----- Daisetta  
 Allison, Paul, 2L ----- Benbrook  
 Ammons, Johnnie, 1L ----- Roby  
 Anderson, Berniece Yvonne, 1L ----- Paducah  
 Anderson, Dixie V., 2E ----- Lufkin  
 Anderson, Mrs. E. R., 2L ----- Plainview  
 Anderson, Margaret, 1H ----- Post  
 Anderson, Roy Cason, 3A ----- Mount Pleasant  
 Anglin, Hazel Lynn, 2L ----- Tahoka  
 Anthony, Ben, 1L ----- Brownwood  
 Anthony, James A., 1A ----- Farwell  
 Anthony, Mildred, 1L ----- Lubbock  
 Appling, Artelle, 2L ----- Fort Worth  
 Archer, H. E., 1L ----- Cisco  
 Armbruster, Walter E., 2L ----- Dallas  
 Armstrong, Ena, G ----- Thrifty  
 Armstrong, Ursel S., 3L ----- Panhandle  
 Arnold, Lucile, 1H ----- Arp  
 Ashley, Mrs. Gladys, 2L ----- Lubbock  
 Ashmore, Mrs. Florence, 4L ----- Coleman

Ashmore, Hautense, 1L ----- Lubbock  
 Ashmore, Mabel, 1L ----- Lubbock  
 Ater, Ruby Lee, 1H ----- Lubbock  
 Atkinson, Atmar L., 2E ----- Anton  
 Au, Chung Wo, 2L ----- Hong Kong, China  
 Auburg, Mrs. J. T., 1L ----- Brownfield  
 Austin, D. T., Jr., 3E ----- Mount Pleasant  
 Austin, F. C., 1E ----- Chicago, Ill.  
 Austin, Hammond, 2L ----- Lubbock  
 Austin, James Lindsay, 1L ----- Chicago, Ill.  
 Ayres, Cecil, 1A ----- Chillicothe  
 Ayers, Hazel, 1H ----- Shallowater  
 Ayers, Manuel, 1L ----- Shallowater  
 Ayers, Ross, 4L ----- Wheelock  
 Ayres, Jean, 2L ----- Floydada

Bachtell, Robert, 2E ----- Rankin  
 Bacon, Naomi Idell, 1L ----- Lubbock  
 Bacon, Virginia T., 4L ----- Lubbock  
 Bagwell, Marshall, 2E ----- Lubbock  
 Bailey, Eleanor, 1L ----- Wolforth  
 Bailey, Herbert, 1E ----- Slaton  
 Bailey, Lois, 3L ----- Spearman  
 Bailey, Sam, 2L ----- Estelline  
 Bain, Ethel, 3L ----- Sweetwater  
 Bain, Jean, 1L ----- Floydada  
 Baird, H. C., 2H ----- Vernon  
 Baker, Coleta Joy, 2L ----- Lubbock  
 Baker, Dorothy, 3L ----- Graford  
 Baker, Earl, 1A ----- Anton  
 Baker, Elva, 3A ----- Abilene  
 Baker, John W., 1L ----- Bellevue  
 Baker, John Wesley, 2L ----- Peacock  
 Baker, Lucille, 2L ----- Artesia, N. Mex.  
 Balderston, Robert, 2E ----- Canadian  
 Baldwin, Ben, 2L ----- Wellington  
 Ball, Clifford, 1L ----- Shallowater  
 Ball, Glenn, 1A ----- Hobbs, N. Mex.  
 Ball, Gordon E., 1L ----- Cleburne  
 Ball, John S., 3E ----- Lubbock  
 Ballenger, Felix, 3L ----- Lubbock  
 Banta, David A., 2L ----- Bellaire  
 Bardwell, Mary Lee, 3L ----- Lubbock  
 Barker, J. Wilson, 2E ----- Weatherford  
 Barker, Ruth Johnson, 1H ----- Weatherford  
 Barkham, Billy, 1E ----- Lubbock  
 Barkham, Jorga, 2L ----- Lubbock  
 Barksdale, Logan, 1L ----- Gainesville  
 Barlow, Joe, 1A ----- Miami, Okla.  
 Barnard, Pauline, 1L ----- Lubbock  
 Barnard, Wanda, 2L ----- Lubbock  
 Barnett, Cecile, 2L ----- Kilgore  
 Barnett, Mary, 3H ----- McCamey

Baron, Buster, 1L	Lubbock	Bledsoe, Edgar, 1L	Ropesville
Baron, Carmen Jo, 1L	McCamey	Blount, Willys G., 1L	San Augustine
Barr, Kathryn, 1L	Lubbock	Blue, Don, 2E	Amarillo
Barrett, Florence, 3H	Lubbock	Bobo, Clarence B., 3L	Paducah
Barron, Fred C., 2L	Wichita Falls	Bogan, Bernard R., 2E	Lubbock
Barrow, Polly, 3L	Lubbock	Boland, George L., 1L	Girard
Barry, James C., 1E	Slaton	Bolton, J. Mac, 1L	Lubbock
Barstow, Helen, 1L	Albany	Bolton, Jewell, 2L	Crosbyton
Barton, Ernest F., 3A	Lubbock	Bond, Walter, 2L	Brownfield
Barton, Jack, 1L	Dickens	Booker, Eileen, 1H	Lubbock
Barton, Raymond, 2L	Lubbock	Boon, A. P., 1E	Lufkin
Barton, Sue, 2L	Sterling City	Booser, Garland, 1A	Lubbock
Baskin, K., 2L	Lubbock	Borden, Curtis, 1L	Dickens
Baskin, Margaret, G	Lubbock	Boren, Brud, 1L	Fluvanna
Baskin, Mary Louise, 4L	Lubbock	Boren, Lemuel, 1E	Lorena
Bass, Felix, 2E	Lubbock	Boroughs, Thomas, 1L	Mart
Bass, Laura Sue, 2L	Lubbock	Borum, Urnon, 1L	Floydada
Bates, William F., 1E	Pasadena, Calif.	Borum, Venita, 1L	Floydada
Baucum, Anna Mary, 1L	Lubbock	Boucher, Frank, 1A	Cumby
Baugh, W. Lofton, 3E	Lubbock	Bourland, Robert, 1L	Clyde
Baughn, Ford L., 3A	Deport	Boverie, Bess, G	Lubbock
Bavousett, Roe, 4A	Snyder	Boverie, Floyd, 3L	Wellington
Bayless, Roscoe I., 4L	Lubbock	Bowen, Marie, 2L	Slaton
Bean, Russell, 4A	Lubbock	Bowers, Marcellie, 1H	Lubbock
Beans, Frank W., 1E	Cleburne	Bowers, Max, 1E	Lubbock
Beard, Bernice, 1L	Lubbock	Bowlin, Alice Joy, 1L	O'Donnell
Beard, Evelyn, 2L	Lubbock	Bowlin, Lucille, 3H	Lubbock
Beard, Girdy Pearl, 4H	Rule	Bowman, Thomas, 1L	Lorena
Beard, Juanita H., 4L	Lubbock	Box, Grady, 2L	Shamrock
Bearden, Victor, 4L	Lamesa	Boyd, Avanel, 2L	Whitesboro
Beasley, Frances, 1H	Greenville	Boyd, John Anna, 2L	Lubbock
Beasley, Lorene, 1L	Iowa Park	Boyd, Mary, 3L	Hamlin
Beasley, Ruby, 1L	Fort Worth	Boyd, Virginia, 1L	Idalou
Beasley, Virginia, 1L	Iowa Park	Bozeman, Bruce, 1E	Lorenzo
Beaty, Herman, 1L	Throckmorton	Bradford, Leonard, 1L	Seagraves
Beauchamp, John H., 4L	Greenville	Bradford, Marshall, 1L	Seagraves
Beauchamp, J. V., 1L	Greenville	Bradley, Ned J., 2L	Lubbock
Beaver, J. T., 1L	Fluvanna	Brady, Alla Ruth, 2L	Mart
Beaver, Matty Lynn, 2H	Fluvanna	Brady, Eva Ruth, 3L	Decatur
Beene, G. L., 4A	Roby	Brandenburg, Ralph, 4E	San Antonio
Bell, Harrell, 1E	Gladewater	Brandon, Frances, 1L	Post
Bell, Ino. Allen, 2E	Lubbock	Brandon, Ray, 1L	Cleburne
Bell, Vernon, 1A	Brownfield	Brannen, Blanche, 2L	Littlefield
Bellamy, Wilmot, 1L	Medicine Mound	Brannin, R. S., Jr., 1E	Benjamin
Benham, Ford, 4E	Lubbock	Branson, Jewell Belle, 1H	Joshua
Benham, Gene, 1L	Lubbock	Brashear, Cecil, 1A	Lubbock
Benn, Margarette, 1H	Abernathy	Brashear, Jhonnie, 1L	Idalou
Benn, Owen, 3A	Abernathy	Brasher, Herbert, 1E	Las Vegas, N. M.
Bennett, Ann Lou, 3L	Arlington	Bratcher, Violet, 2L	Lubbock
Bennett, C. Kenneth, 1A	Ardmore, Okla.	Braudt, Doris, 1L	Hale Center
Bennett, James L., 1A	Fort Worth	Bresler, Alma DeShazo, 4H	Lubbock
Bennett, Mrs. Jessica, G	Lubbock	Brewer, Fred, 1L	Dalhart
Benson, Frances Ruth, 3L	Amarillo	Brewer, Mary, 1L	Lubbock
Benson, Horace, 1E	El Paso	Brewster, Bryan, 2L	Blanket
Benson, Raymond, 1E	Lubbock	Bridges, Eliese, 3L	Lorenzo
Beran, Alvina, 1H	Lubbock	Brigance, Dorothy Lee, 3L	Hart
Beran, Lumir E., 2L	Lubbock	Briley, Noel C., 1A	Lubbock
Berrier, Christine, 3H	Lubbock	Briscoe, Jesse B., 1L	New London, Mo.
Beyhan, Elizabeth, 1L	Texon	Bristow, Jessie Ree, 2L	Stanton
Beyhan, Jack, 2L	Texon	Brock, Gene H., 3L	Houston
Bickley, Cecil, 4L	Lubbock	Brock, Lettye, 1L	Chillicothe
Bickley, Elizabeth, 2L	Fabens	Bromley, Mrs. J. J., 2L	Plainview
Biffle, Fred, 2L	Silverton	Brooks, Horace, 1L	Levelland
Biffle, Geraldine, 2L	Silverton	Browder, Ruth, 1L	Truscott
Bigham, Croft, 2E	Lubbock	Brown, A. B., 4L	Lubbock
Billingsley, Louise, 1L	Lamesa	Brown, Alma, 4L	Ackerly
Bingham, W. H., 2L	Aspermont	Brown, Alena, 1L	Lubbock
Birdsong, Horace, 1L	Goodrich	Brown, Charles N., 2E	Floydada
Bishop, Argie Mae, 1L	Lubbock	Brown, Claude H., 2A	Saint Jo
Bishop, Clara Mae, 2L	Ropesville	Brown, Claude D., 1L	Mexia
Bishop, Wanza Mae, 1H	Cuthand	Brown, Clyde, 3A	Lubbock
Bivin, H., 2L	Lubbock	Brown, Donald, 1L	Clovis, N. Mex.
Black, Harlan, 1A	Seagraves	Brown, Eugene, 1L	Lubbock
Black, Sam M., 2A	Paris	Brown, Fay, 3L	Lubbock
Blackburn, Willie Mae, 2L	Lubbock	Brown, Frances LaVerne, 1L	Lubbock
Blackstock, Lyman D., 3L	Brownfield	Brown, Gordon, 1A	Mathis
Blackwell, Lola Beth, 2L	Vernon	Brown, Jean, 1H	Rochester
Blackwell, Royce, 1L	Spur	Brown, Jewel, 3H	Rochester
Blair, Dorothy, 2H	Lubbock	Brown, Lud J., 2A	Saint Jo
Blake, Bob, 2A	Lubbock	Brown, Othniel, 1E	Lubbock
Blanton, Ella Mae, 4H	Ralls	Brown, Robert E., 2E	Cisco
Bledsoe, Donald, 2L	Becton	Brown, Sue, 4L	Lubbock



Brown, Velma, 2H	Shallowater	Carson, Sarah Evelyn, 4L	Stamford
Brown, Virginia, 1L	Lorenzo	Carter, Anabel G., 2L	Lubbock
Browning, Buford, 4A	Fluvanna	Carter, Bessie, 1H	Darrouzett
Browning, Elizabeth, 1L	Quanah	Carter, Dick, 4L	Plainview
Brumley, Homer, 2A	Herford	Carter, Ema Jo., 1L	Lubbock
Brummett, Carlos, 1L	Dickens	Carter, George, 1L	Lubbock
Brummett, R. C., 3E	Dexter, N. Mex.	Carter, J. T., G	Happy
Bryan, Bruce, 3E	Lubbock	Carter, K., 2L	Lubbock
Bryant, K. Robert, 1L	Los Angeles, Cal.	Caruthers, Pat C., 3L	Kopperl
Bryant, Noel, 1L	Hereford	Cartier, Gilbert, 1L	Lubbock
Bryant, Norval J., 2L	Loizozo	Carter, Lorena, 2H	Mertzon
Buckner, Oran, 1L	Brownfield	Carter, Mary Ruth, 1L	Quinlan
Bucy, Thomas, 1E	Rising Star	Carter, Ruth, 4H	Lubbock
Buie, Clarice, 2L	Stamford	Cason, Noel, 3L	Cleburne
Buie, Jas. Morgan, 4E	Fort Worth	Cass, Ches, 1L	Haskell
Buie, Pauline, 1L	Stamford	Casteel, J. Walter, 3L	Lubbock
Buie, Ruth, 1L	Crosbyton	Casterlin, Donald E. G., 1L	Pecos
Bullock, Lesley L., 4H	Lubbock	Caulle, E. G., 4A	Stiles
Bundy, Christine, 2L	Lubbock	Caudill, Katherine, 2L	Hobbs, N. Mex.
Bunell, Oscar, 1L	Gatesville	Caudle, Alma Lee, 1H	Tatum, N. Mex.
Bunnell, Sol, 1L	Taylor	Caudle, M. S., 1L	Balinger
Bunyard, Halon, 2A	Crawford	Cawthon, Pauline, 1L	Clovis, N. Mex.
Burchfield, Morris, 1L	Venon	Chamberlin, James C., G	Rochester
Burgess, Leslie Van, 3L	Lubbock	Chamberlin John Jr., 3L	Mineral Wells
Burkett, Malcolm Monroe, 3E	Henrietta	Chance, A. Juanita, 1H	Ralls
Burkhalter, Henry, G	Lubbock	Chapman, Emma, 4H	Lubbock
Burks, W. A., 1E	Grapewine	Cheaney, Theo, 2L	Electric
Burleson, Adele, 1L	Matador	Chesser, T. Melvin, 2E	Lockhart
Burnett, Hadley, 1L	Lubbock	Cheyne, Edith Richey, 2H	Spur
Burnett, Vane, 2L	Dubin	Chilcoat, Connell, 1L	Truscott
Burnett, Wesley, 1L	Graham	Childers, Jack, 1L	Childress
Burres, Loyd F., 1L	Midland	Childers, Lorene, 2L	Lubbock
Burton, Comer, 2L	Abilene	Chipley, Jack, 1L	Lubbock
Burton, James Gordon, 2L	Cleburne	Chisum, Leopold, 2L	Levelland
Bussey, Novelle, 1L	Lubbock	Chowning, Blanche, 1L	Electra
Bush, Billy, 4L	Greenville	Christian, Joe M., 1E	Eldorado
Butcher, Robert, 2E	Carlsbad, N. Mex.	Christianson, L. C., G	Lubbock
Butler, Annie Lorea, 2H	Lubbock	Christopher, N. H., 4E	Lubbock
Butler, Mrs. Frank, 1L	Lubbock	Churchwell, J. B., 3E	Trinidad
Butler, Gladys, 4L	Lubbock	Clack, Evaughn, 3H	Pauls Valley, Okla.
Butler, Lois, 4L	Lubbock	Clapp, Betty, 1H	Childress
Butler, Lucille, 1H	Lubbock	Clapp, Roger, 4E	Childress
Butler, Wanda, 2L	Lubbock	Clark, Ardian, 1L	Denison
Butner, Betty, 2H	Bronte	Clark, Poyce, 3L	Lubbock
Butts, Aubrey O., 2L	Lubbock	Clark, Eloise, 1L	Tahoka
Butts, Partie Lee, 1L	Lubbock	Clark, Frank, 2L	Plainview
Byler, Wayne, 1H	Balinger	Clark, Maxine, 3L	Lubbock
Byrd, John Franklin, 1L	Crosbyton	Clark, Roscoe, 1L	Lubbock
Byrd, Sylva, 2L	Crosbyton	Claunch, Barton F., 4L	Hayden, N. M.
Ca'dwell, Ann, 1L	Lubbock	Clay, Sallie Jane, 2H	Dunn
Caldwell, Bill, 4L	Lubbock	Clayton, Joe, 2A	Gail
Caldwell, Mrs. J. B., G	Chicota	Clayton, Mardis, 3A	Gail
Caldwell, J. W., 1E	Athens	Clements, Canon, G	Lubbock
Caldwell, Lorane, 2L	Lubbock	Clements, Dollie, 2L	Lubbock
Caldwell, Linda, 1L	Lubbock	Clements, Dorothy, 2L	El Paso
Cameron, Mattie, 3L	Jacksonville	Cleveland, Neweta, 2H	Lubbock
Cammack, Lora Elizabeth, 1L	Matador	Clewell, Evelyn, G	Lubbock
Cammack, Pearl, 1L	Matador	Clewell, Geraldine, 4H	Waco
Cammack, Tom, 1L	Lubbock	Cline, Esther, 2L	Lubbock
Campbell, Dick, 1E	Plano	Clutter, Blevie C., Jr., 1A	Lubbock
Campbell, Edwin M., 1E	Pittsburg	Cobb, Charles, 3L	Lubbock
Campbell, James S., 2L	Cadiso	Cobb, Margaret, 1L	Littlefield
Campbell, Louise, 3L	Lubbock	Cobb, Mozelle, 1L	Lubbock
Campbell, Rachel, 1L	Lubbock	Cobb, Woodrow, 1L	Dickens
Campbell, Spencer, 1L	Spur	Coffield, James Barrie, 2L	Bowie
Cannon, Demp, 1L	Slaton	Coffman, George Raymond, 1E	Cleburne
Cantrell, Cecil J., 1L	Mexia	Cogdell, Ralph, 3A	Crowell
Cantrell, Ralph B., 3E	Mexia	Cogdell, We'don K., 2L	Crowell
Cantrell, Sam H., 2A	Lubbock	Coker, Glynnie R., 3L	Athens
Cardwell, Mitchell, G	Georgetown	Coker, LaVerne, 1H	Athens
Carey, Allene, 1L	Kilgore	Cole, Frank, 4E	Lubbock
Carmichael, Hubert, 1L	Sayre, Okla.	Coleman, Myrtle, 2L	Lubbock
Carmichael, Loveta, 3H	Kenna, N. Mex.	Coles, Era, 1L	Colorado
Carmichael, Ruth, 3H	Kenna, N. Mex.	Collie Ruth, 2H	Hobbs, N. Mex.
Carnes, Estil, 2L	Ardmore, Okla.	Collier, Jim, 2L	Lubbock
Carnes, J. C., 1E	Covington	Collier, Rayburn Dyess, 1L	Lamesa
Carpenter, Deboe, 1L	Olney	Collins, Allie Rae, 4L	Claude
Carpenter, Mrs. W. H., 1L	Lubbock	Collins, John W., 1L	Artesia, N. Mex.
Carigan, Tom, 2L	Cleburne	Collins, Marvin L., 1L	Celina
Ceriker, Mae, 1L	Ciremont	Compton, Lewis G. Jr., 2L	Corsicana
Carroll, B. Hollis, 1L	Lubbock	Compton, W. K., G	Teague
		Cone, Eunice, 4L	Lubbock

Conner, Elizabeth, 3L	-----Lubbock	Dalton, Lowell A., 2E	-----Waco
Conner, J. Preston, 4E	-----Lubbock	Daly, Jean, 3L	-----Lefors
Conner, Louise, 1L	-----Floyd	Darby, Dorothy, 1H	-----Snyder
Conner, Wm. Alvin, 1L	-----Brownfield	Darr, Aud F., 4L	-----Melrose, N. Mex.
Conway, Abner D., 1L	-----Swearingen	Darwin, Rachel, 1L	-----Lubbock
Cook, Adrain, 1A	-----Post	Davenport, Gladys, 1L	-----Kress
Cook, Dick, 1L	-----Lubbock	Davenport, Guinn, 1E	-----Vernon
Cook, Elton D., 1A	-----Lubbock	Davidson, A. Bill, 1L	-----Lubbock
Cook, Frankie Marie, 1L	-----Big Spring	Davidson, Narl, 3E	-----Portales, N. Mex.
Cook, John Lewis, 2L	-----Henrietta	Davis, Austin, 3E	-----Sweetwater
Cook, Kate Dean, 2L	-----Strawn	Davis, Chapman, 2L	-----Sulphur Springs
Cook, Lucy Gene, 1H	-----Lubbock	Davis, Corliss E., 2E	-----Lubbock
Cook, Marshall, 1L	-----Garden City	Davis, Dan, 2E	-----Childress
Cook, Sarah Louise, 1H	-----Strawn	Davis, Emily, 2H	-----Lubbock
Cooper, Al Ray, 1E	-----Ralls	Davis, Gaines, 1L	-----Abilene
Cooper, Mrs. J. R. B., 4L	-----Lubbock	Davis, Herbert, 2A	-----Silverton
Cope, Sybil, 1L	-----Lubbock	Davis, J. C. Jr., 2L	-----Rule
Copeland, Velma, 4H	-----Bowie	Davis, Julia, 2L	-----Lubbock
Copeland, Vera, 4L	-----Bowie	Davis, Kenneth, 1L	-----Lubbock
Corley, Arlene, 2L	-----Wolfforth	Davis, Kermit, 1E	-----Ralls
Corley, Howard, 2L	-----Corpus Christi	Davis, Mary Anne, 1H	-----Lubbock
Couch, Imogene, 4H	-----Gustine	Davis, Milton, 2A	-----Lubbock
Courtney, Joe Ray, 1E	-----Lubbock	Davis, Milton G., 1E	-----Boston, Mass.
Cousins, S. A., 4E	-----McLean	Davis, R. V., 4E	-----El Paso
Covey, Truman M., 1L	-----Wilson	Davis, Trenton T., 2L	-----Saint Jo
Cowan, Coleman, 2A	-----Lubbock	Dean, Mrs. Bert H., 3L	-----Lubbock
Cowan, Geo., 2L	-----Seymour	Dean, Dale, 2L	-----Lubbock
Cowan, Jim Moon, 1E	-----Itasca	Dean, Dessie, 1L	-----Breckenridge
Coward, Arlois, 1L	-----Crosbyton	Dean, Horace, 4A	-----Dawson
Cox, Catherine, 3L	-----Snyder	Dean, Jerry Lee, 1A	-----Waco
Cox, Charles, 3L	-----Lubbock	Dean, John L., 4L	-----Crockett
Cox, Dan, 2E	-----Okmulgee, Okla.	DeBusk, Lola, 1H	-----Idaou
Cox, Jean, 1H	-----Anton	DeBusk, Manuel, 4L	-----Idalou
Cx, Leah, 4H	-----Lubbock	Decker, Genevieve, 1L	-----Lubbock
Cox, Martha Emma, 1L	-----Snyder	DeCordova, Chester, 1L	-----Petersburg
Cox, Seth B., 4L	-----Stamford	Dederick, Magdalen, 2L	-----Sherman
Cox, Vincent Marcus, 2L	-----Portales, N. M.	Dedmon, Pearl, 1L	-----Sagerton
Cox, Walter A., 4E	-----Abilene	Deering, Eva, 4L	-----Olive, N. Mex.
Cozby, Mildred, 1L	-----Lubbock	Deering, Gordon M., 2L	-----Grit
Craddock, La Gatha, 1L	-----Post	DeFee, T. J. Jr., 1L	-----Ralls
Craig, Irene, 1H	-----Abernathy	DeLafosse, Sue, 1L	-----Albany
Craig, Ruth, 2L	-----Lubbock	Delaney, F. Colby, 1L	-----Lubbock
Crawford, A. W., 4E	-----Childress	DeLashaw, Fred, 4A	-----Ivanhoe
Crawford, Pab, 2L	-----Lubbock	Dennis, Lois, 1L	-----Hollis, Okla.
Crawford, Claude, 1L	-----Dallas	Derrick, Adelia Faye, 1L	-----Ralls
Crawford, Pora Be'le, 1H	-----Big Spring	DeShazo, Herbert, 4E	-----Lubbock
Crawford, H. Clifton, 2E	-----Haskell	Dickson, Drew, 1L	-----Ballinger
Crawford, Herschel, 2E	-----Slaton	Diersing, Frances Marie, 1L	-----Munday
Crawford, J. Frank, 1L	-----Childress	Dillard, Edna Mae, 2L	-----Crosbyton
Crawford, John A., 1E	-----Slaton	Ditmore, Nora, 1L	-----Water Valley
Crawford, Naomi Geneva, 3L	-----Dimmitt	Dixon, Nancy Carolyn, 4H	-----Bellevue
Crawford, Preston, 2L	-----Lubbock	Dobbins, Dorothy, 2L	-----Waco
Crawford, Robbie Lee, 1L	-----Lubbock	Dobbins, Glenn, 3L	-----Roaring Springs
Crawford, W. T., 1L	-----Big Spring	Dobbins, Joyce, 2L	-----Roaring Springs
Creighton, Opal Louise, 4L	-----Abilene	Dockray, V. R. Jr., 1L	-----Lubbock
Crenshaw, Billy, 1L	-----Lubbock	Dodson, Ione, 2L	-----Whitney
Crenshaw, Charles, 1L	-----Lubbock	Dohoney, Ann, 1L	-----Lubbock
Crews, Alvin, 2L	-----Wilson	Donaldson, Anna Belle, 3L	-----Lubbock
Crews, Leroy, 1L	-----Wilson	Donaldson, J. D., 2L	-----Tahoka
Crites, Harold, 3L	-----Lubbock	Donnell, Alvin A., 2A	-----Eliasville
Cromwell, C. Lewis, 4L	-----Stephenville	Donnell, Ruth, 2L	-----Lubbock
Croslin, Lloyd, G	-----Lubbock	Dorsett, Lucile, 1L	-----Panview
Cross, J. Hollie, 1L	-----Lubbock	Doss, Beth, 1L	-----Seminole
Cross, Walter, 1A	-----Megargel	Doughtie, Jack, 2L	-----Cleburne
Crouch, Velda, 1L	-----Spur	Doughtie, John A., 1E	-----Cleburne
Crouse, T. V., G	-----Perrin	Douglas, Louise, 3L	-----Texhoma, Okla.
Crowell, I. M., 1L	-----Crowell	Douglas, Margaret, 1L	-----Texhoma, Okla.
Crum, Wallace, 1L	-----Portales, N. Mex.	Douglas, Mary Louise, 1L	-----Lubbock
Crump, Willis Lee, 1E	-----Follett	Douglas, R. C. Jr., 2L	-----Lubbock
Cudd, Helen, 1L	-----Spur	Douglas, Ralph, 3E	-----Lubbock
Culwell, Zadie, 1L	-----Lubbock	Douglas, Ruth, 3L	-----Lubbock
Cummings, H. Clifton, 2L	-----Byers	Douglas, Frances, 2L	-----Big Spring
Cummings, John R., 2L	-----Byers	Douthit, Lowell, 3L	-----Tahoka
Cummings, Juel, 1L	-----Wink	Dow, Harold D., 1L	-----Lubbock
Cunningham, Bedford, 1L	-----Iowa Park	Dowdle, Randolph, 1L	-----Coolidge
Curlo, J. T., 1L	-----Waco	Dowell, Gwyn Clark, 1L	-----Royse City
Curfman, Leonard, 1L	-----Electra	Dowell, Robert, 1L	-----Royse City
Curfman, Roy, 2L	-----Electra	Downing, Faye, 1H	-----Mabank
Curry, Mary, 1L	-----Seminole	Downing, James Layton, 1E	-----Wichita Falls
Dahnke, Winslow, 3L	-----Boyce	Downs, Jack, 3A	-----Saragosa
Dalton, J. M., 1L	-----Weatherford	Doyle, Mary Jane, 1L	-----Lubbock
		Drake, Phyllis, 2H	-----Kress

Drake, Robert E., 4E	Kress	Farr, R. Alton, 1L	Bellevue
Drewry, Joan, 1H	Slaton	Farris, Francis Audrey, 3H	Floydada
Drinkard, Cloyce, 1A	Snyder	Farris, Inez, 1H	Tahoka
Drown, Jack, 2L	Lubbock	Farris, Olen, 1L	Shallowater
Dryden, Mary Elizabeth, 2L	Best	Farwood, Amor, 1L	Taylor
Dubberly, Gene, 1H	Houston	Faucett, Arnold Joe, 1L	Big Spring
Dudley, Roger, 1L	Ozona	Faver, Nancy, 2L	Sweetwater
Duff, Berry, 1A	Big Spring	Feathersen, J. Charles, 4L	Petersburg
Duff, Margaret, 1L	Cleburne	Feierabend, Milo M., 4L	Amarillo
Duff, Rosemary, 1L	Lubbock	Felta, Robbie Jo, 1L	Shallowater
Duke, Herma, 1L	Lamesa	Ferguson, Jewel Lee, 1L	Chillicothe
Dulin, Tommie Ruth, 1L	Wilson	Ferguson, Leslie, 1E	Lockney
Duncan, Allene, 1L	Lubbock	Fickas, W. R. J., 4L	Lubbock
Duncan, Homer, 3L	Lubbock	Field, Mrs. Geo. A., 1L	Lubbock
Duncan, Mary, 1L	Littlefield	Fike, Chas. Edward, 2L	Slaton
Dunlop, Margaret R., 3L	Lubbock	Fincher, Gladys, 2H	Chillicothe
Dunlop, Wales, 1A	Lubbock	Fincher, Otis, 1L	Chillicothe
Dunman, Anne, 2H	Sanderson	Fine, Casey, 2A	Slaton
Dunn, Erlene, 2L	Georgetown	Finley, Geo. P. Jr., 1L	Aspermont
Dunn, Genia, 1L	Crosbyton	Finley, Lorena, 1L	Portales, N. Mex.
Dunn, Harvey L., 3L	Ralls	Fish, Berny, 2L	Paducah
Dunn, Hazel Dell, 1L	Crosbyton	Fisher, Mrs. Elizabeth, 2L	Clayton, N. M.
Dunn, Myrtle, 1L	Lubbock	Fisher, Frieda, 1H	Shallowater
Dunn, Raymond E., 4L	Slaton	Fisher, Hazel, 3H	Shallowater
Dunn, Ruth, 2L	Lubbock	Fisher, Leon, 4L	Memphis
Durham, G. W., 2E	Lubbock	Fite, Freda, 1L	Shallowater
Durham, Geraldine, 2L	Hamilton	Flake, M. F., 1L	Lubbock
Durham, Henry O., 1E	Lubbock	Fleming, Marie, 1H	Idalou
Dyer, Mary E., 1L	Lubbock	Flemmons, Jas., 2L	Royse City
Dykes, Allen, 1L	Lubbock	Fletcher, Irene, 1L	Lubbock
Eagan, Fleeta, 1L	Littlefield	Floore, Mary Alice, 3L	Fort Worth
Earnest, Edith, 2L	Lubbock	Florence, Lloyd, 1A	Lubbock
Easley, Tom Lee, 4A	Seymour	Florida, Kaufman, 1L	Rotan
Eason, Allie, 1L	Rotan	Flowers, Jack, 3L	Big Spring
Easter, John, 1E	Lubbock	Foote, W. C. Jr., 1E	Petersburg
Easterling, T. R., 1E	Memphis	Forbess, Ordess, 4E	Lubbock
Eaton, Fannie Brown, 1H	Lubbock	Forbis, Britian, 2L	Spur
Eaton, Frank, 2L	Lubbock	Forbis, Stafford, 1L	Spur
Eaton, Wilmot, 1L	Rule	Ford, Claribel, 1L	Lubbock
Eaves, Mrs. C. D., 2L	Lubbock	Ford, Frances, G	Lubbock
Eby, Duane C., 1L	Olton	Ford, Gertrude, 1L	Sudan
Echols, Tommy, 2L	Throckmorton	Ford, Joe Marvin, 1E	Lubbock
Eddleman, Frank, 1L	Lubbock	Ford, Marian, 1L	Lubbock
Edmisson, Ulla H., 1L	Lubbock	Ford, Mary Elizabeth, 1L	Sweetwater
Edmondson, Pearl, 3L	Slaton	Ford, T. A., 2E	Lubbock
Edmondson, Wesley R., 1L	Loraine	Ford, Wenonah, 1L	Sweetwater
Edwards, David Aubrey, 2L	Lubbock	Fortner, Elmer, 2L	Sherman
Edwards, Eugene, 4E	Fort Worth	Foster, Ada L., 3L	Lockney
Edwards, Joe, 1L	Marfa	Foster, Altha, 1L	Lubbock
Eiland, Helen Frances, 2H	Munday	Foster, Augusta Maye, 4L	Lockney
Eklund, Lillian, 4H	Slaton	Foster, Geo. W. Jr., 1E	Lubbock
Elder, Henry, 3A	Cuero	Foster, M. K., 1E	Lubbock
Elder, Joe, 1L	Cuero	Foster, Mrs. Sara, 3H	Lubbock
Elkin, Harold G., 2E	Channing	Foster, Vincent, 3L	Amarillo
Elkins, C. H., 4L	Lubbock	Fox, Agnes, 1L	Lorenzo
Elliott, Arvie, 1A	Lubbock	Frazier, Kenneth D., 1E	Farmersville
Elliott, Fred, 1A	Lubbock	Freeland, G. Veo., 1L	Lubbock
Elliott, Harold, 2L	Dumas	Freeman, Lois I., G	Lubbock
Elliott, Josephine, 2L	Kress	Freeze, John H., 2A	Sweetwater
Elliott, Nora Ellen, 4H	Dumas	Fristoe, Mrs. M., 2L	Caprock, N. Mex.
Elliott, W. Alvin, 1L	Levelland	Frost, Mary Ellen, 2L	Levelland
Ellis, Cleo, 1L	Plainview	Fry, Klipstein, 1L	Lubbock
Ellis, Elizabeth, 2L	Lubbock	Fryar, Harvey, 4L	Midland
Ellis, Mrs. L. C., 1L	Lubbock	Fudge, James, 1E	Dallas
English, Aval, 1L	Amarillo	Fuller, Clayton, 2A	Floydada
Epperson, J. T., 1L	Cleburne	Fulton, Mary, 2L	Lubbock
Estlack, Hazel, 2L	Hobbs, N. Mex.	Fulton, Sarah, 1L	Lubbock
Estlack, Lila, 1H	Hobbs, N. Mex.	Fuqua, W. N. Jr., 2L	Hamilton
Eubank, Delbert, 2L	Floydada	Furgeson, Clara Belle, 1L	Lubbock
Eubank, Paul, 1L	Lubbock	Furgeson, W. Royal, 3L	Lubbock
Eubanks, Billye Pearl, G	Lubbock	Furr, S. J. Jr., 1L	Weatherford
Eubanks, Gail, 3E	Corpus Christi		
Evans, Bernard, 1L	Ropesville		
Evans, Cleo, 1H	Meadow	Gabrielle, Sanford H., 4E	Nashville, Tenn.
Evans, Guy B., 2E	Lindale	Galbraith, Chas. C., G	Lubbock
Evans, W. P., 3L	Plainview	Galbraith, Inman, 1E	Arlington
Ewing, J. C., 4E	Denton	Gamble, Audrey, 1L	Lubbock
		Gamel, Worth, 3E	Lubbock
Fairchild, Everett D., 4L	Plainview	Gammill, Rankin, 2L	Lubbock
Fairly, Fred, 3E	Lubbock	Gannaway, Garland, 1L	Hermleigh
Farmer, Moss, 1E	Bonham	Garner, Wilfred, 1L	Robert Lee
Farmer, Panny, 1L	Knox City	Garlington, Evelyn, 2L	Littlefield



Garrett, Mrs. Martha, 2L	Lubbock	Gregory, Evelyn, 1L	Lubbock
Garrigues, Pauline, 3H	Slaton	Gregory, Florence, 1H	Lubbock
Garrison, Homer, 1A	Lubbock	Gregory, Wm. W., 3A	Lubbock
Garrison, LaVerne, 4L	Lubbock	Gresham, C. E., 1E	Newlin
Garrison, Mrs. Lizzie Lou, 2L	Spur	Griffin, John, 1E	Brownwood
Garrison, Louise, 4L	Lubbock	Griffin, Percy, 2L	Electra
Garrison, Ward, 3L	Lubbock	Griffing, D. Hollis, 2E	Milford
Gary, Mary G., 1L	Fort Worth	Griffith, Elbert, 1L	Crowell
Gause, Roma, 2L	Lubbock	Griffith, Ernest, 1L	Loraine
Gay, Frank, 1E	Dickens	Griffith, Mrs. Mary Scott, 1L	Lubbock
Gaylor, Lee, 3L	Wagoner, Okla.	Griffith, William T., 1E	Loraine
Gaylord, Claude, 1E	Lubbock	Grigg, Melvin, 1L	Floydada
Gaylord, Mrs. Doris, 1H	Lubbock	Grigsby, Bill, 1L	Floydada
Gebhard, Winnelle, 3H	Lubbock	Grigsby, Virginia, 1L	Lubbock
Geeslin, Conrad, 1L	Brady	Grimes, E. B., 1L	White Deer
Gelin, Leona, 4L	Lubbock	Grimes, Fred, 1L	Hillsboro
Gentry, Lucile, 2L	Lubbock	Grimes, W. J., 3A	Lubbock
George, Herman, 1E	Dallas	Grimsley, Betty, 1H	Lubbock
Goppert, Mattye Vesta, 3H	Teague	Grisson, John, 1L	Lubbock
Gholson, Martha, 2L	Lubbock	Grist, J. Walter, 1A	Tulia
Gibbs, Clifford L., 1L	Loco, Okla.	Grote, Mary Pauline, 1H	Brenham
Gibson, Roberta, 1L	Cone	Grundy, Jack A., 3E	Quitauque
Gilkerson, Voncile, 4L	Lubbock	Gulledge, Evelyn, 4L	Lubbock
Gill, Lela, 1L	Silverton	Gulledge, Velda B., 3H	Lubbock
Gill, T. G., 1A	Fort Worth	Guthrie, Harry L., 2E	Mesa, Ariz.
Gilley, Frances, 1L	Southland		
Gilliam, Hughes, 4L	Haskell	Haag, H. L., 1L	Midland
Gilmore, Braxton, 2L	Olney	Hackney, Burton G., 1L	Pickton
Gilmore, Wilson, 2L	Olney	Hackney, Glenn T., 4A	Pickton
Gilpin, Mrs. Bessie, 1L	McAloo	Hair, Bailey, 2L	Olton
Glasscock, June, 1L	Muleshoe	Halbert, Eleanor, 1L	Plainview
Glazner, Charles E., 1E	Wilson	Hale, Ida Mae, 2H	Jacksboro
Glazner, Elbert D., 1E	Wilson	Hale, Joe W., 1L	Littlefield
Glazner, Giles L., 2E	Lubbock	Hale, Leon, 3L	Memphis
Glazner, Margaret, 2L	Anton	Hale, W. V., 2L	Lubbock
Glidewell, Beatrice, 1L	Truscott	Haliburton, F. W., 3L	Electra
Glover, Lloyd H., 2L	Raymondville	Hall, Homer, 1E	Lubbock
Godeke, Henry L., 4E	Lubbock	Hall, Leslie, 4L	Slaton
Godfrey, Percy, 1A	Roaring Springs	Hall, Lois Elizabeth, 4L	Quitauque
Goen, Rayburne W., 1L	Happy	Hall, Paul, 2E	Fort Worth
Goldsmith, Claude, 2L	Olney	Hall, Wm. Mancil, 1L	Roswell, N. M.
Goldsmith, Lazelle, 1H	Cleburne	Halsey, Marcus, 1L	Lubbock
Goldstein, Sid, 1E	Crane	Halsey, Ray E., 2E	Plainview
Gooch, Robert Henry, 4A	Lubbock	Hambright, Janet, 1L	Lubbock
Goode, O. R., 2L	Olney	Hambright, Sue, 2L	Lubbock
Goodman, Mrs. Lena W., 1L	Lubbock	Hamilton, Evelyn M., 1L	Lubbock
Goodwin, Elaine, 2L	Lubbock	Hamilton, Mary Dorcas, 1H	Quitauque
Goodwin, Lois, 2L	Lubbock	Hammock, Jewel, 4L	Sudan
Goodwyn, Ann Kathryn, 1H	Mexia	Hamrick, William Ambrose, 3L	Pampa
Gordon, A. J., 2L	Lorenzo	Hancock, George, 1L	Tahoka
Gordon, G. G., 4A	Lubbock	Hancock, Loretta, 1L	Lamesa
Gordon, Jay, 3L	Lubbock	Handly, Mildred, 2L	Lubbock
Gordon, Lorraine, 3L	Hamilton	Haney, John Raymond, 1L	Crosbyton
Gordon Lynn Gray, 4L	Lubbock	Hankins, Melville, 3L	Lubbock
Gordon, Mary Evelyn, 4L	Albany	Hankins, Mrs. Melville, 3L	Lubbock
Gordon, Sam, 1A	Itasca	Hankins, Oleta, 1L	Lubbock
Gordon, Talmage C., 1L	St. Louis, Mo.	Harber, Milton, 2E	San Saba
Gorham, Beth, 3L	Garden City, Kans.	Hardberger, Mary Genece, 1L	Lubbock
Gragg, Ethelyn, 1L	Abernathy	Hardesty, Joe, 1L	Lamesa
Graham, Ollie M., 3L	Plainview	Hardgrave, Lyle, 2E	Lubbock
Graham, Robert, 1L	Lubbock	Hardgrave, Lynn, 2E	Lubbock
Graham, Sybil, 2L	McLean	Harding, Fenton, 4E	Dallas
Grantham, Rowena, G	Lubbock	Harding, Robert, 1E	Dallas
Gray, George B., 3L	CecVee	Hardy, Benetha, 1L	Lamesa
Gray, John C., 1L	Bonham	Hardy, Lorene, 2L	Shallowater
Gray, Mrs. Queen, G	Moran	Hardy, Mrs. Louise, G	Lubbock
Gray, Ruth, 1L	Lubbock	Hardy, Wayne, 1L	Shallowater
Gray, Willard, 3E	Tyler	Hargrave, Levi M., 2A	Hale Center
Grayson, David, 1L	Lamesa	Harmel, Millie, 3L	Plainview
Greathouse, Walton Dee, 1E	Blackwell	Harmon, Julia Margaret, 4L	Idalou
Green, Ethel, 3H	Lubbock	Harper, Carl, 4L	Lubbock
Green, Grover, 4E	Gainesville	Harper, L. D., 1L	Putman
Green, K. P., 4E	Graford	Harrell, Frank, 2L	San Saba
Green, Margaret, 3L	Lubbock	Harrell, James, 2E	San Saba
Green, Ruth, 3L	Lubbock	Harrington, H. E., 1L	Portales, N. M.
Green, Stella Mae, 1L	Levelland	Harris, Carl, 2A	Mart
Green, Truman, 2E	Portales, N. Mex.	Harris, Ealey, 2L	Ralls
Greene, Harold Rowe, 2E	Emerson, Ark.	Harris, James R., 2E	Asherton
Greer, Ada, 2L	Lubbock	Harris, Jewell B., 2L	Lubbock
Greer, Albert G., 2A	Comanche	Harris, Marion, 2L	Sallisom, Okla.
Greer, Geneva, 2L	Wilson	Harris, R. E., 2L	Cleburne
Greer, Lela Frank, 1L	Wilson	Hart, Jim Allee, 3L	Santa Anna
Greer, Wayne, 1L	Lockney		

Hart, Kenneth L., 1L	Big Spring	Hindman, Gladys, 1L	Spur
Hart, Mary Frances, 3H	Aquilla	Hinds, Van S., 1L	Cleburne
Harter, Astena, 1L	Tahoka	Hines, Truman, 1L	Lubbock
Harter, Joseph W., 3A	Mart	Hinger, Fred, 4L	Endee, N. Mex.
Hash, Virginia, 3L	Levelland	Hinson, H. Houston, 3E	Lubbock
Hastings, Mrs. Emma May, 3H	Lubbock	Hinson, Mancil, 1A	Spur
Hastings, John J., 1L	Dimmitt	Hitchcock, Hal, 1L	Lexington
Hastings, Robert L., 4E	Lubbock	Hitchcock, Matt, 3A	Lexington
Hatch, J. R., 1L	Big Spring	Hitt, Sammie Marie, 3H	Lubbock
Hatton, G. T., 4L	Abilene	Hodges, Margaret Eleanor, 1H	Littlefield
Hatton, Mrs. G. T., 4L	McKinney	Hoffman, Richard H., 2E	Hannibal, Mo.
Haight, O. B., 1L	Shallowater	Hofmann, Gertrude, 4L	Carleton
Hauk, Juanita, 1H	Levelland	Hogle, Lee, 1L	Electra
Havis, Maurine, 3H	Lubbock	Holcolm, C. A. Jr., 1L	Lubbock
Havis, Melvin, 2A	Lubbock	Holcolm, Murray L., 4L	El Campo
Hawkins, Loma, 1L	Meadow	Holden, Allene, 1L	Lubbock
Hawkins, Pete, 1L	Hamilton	Holden, Tom C., G	Tuscola
Hawkinson, Evelyn, 1L	Lubbock	Holden, W. B. Jr., 4A	Clarksburg, W. Va.
Hayden, Ruby Ethel, 3H	Pickton	Holeman, Alfred, 3L	Lubbock
Hayes, Charles E., 1L	Lubbock	Holgate, Kathryn, 1L	Brownfield
Haygood, Minnie Mae, 2L	Lorenzo	Holland, Edwin, 1A	Hereford
Haymes, Terrill W., G	Lubbock	Holland, Ferne, 3L	Lubbock
Haynes, Beauford, 1E	Abernathy	Holland, Fred, 1L	Saint Jo
Haynes, Pauline, 2L	Fluvanna	Holland, Price, 2L	Olton
Haynes, Sarah, 3L	Lubbock	Hollon, Lela, 1L	Waco
Haynie, Ora May, 3L	Fort Worth	Holloway, Mrs. H., 2L	Tucumcari, N. M.
Hays, Odessa, 2L	Lubbock	Holloway, Maretha F., 1L	Lubbock
Hays, S. D. Jr., 1E	Snyder	Holly, Mrs. Evalene, 2H	Lubbock
Hazel, H. C., 1L	Spur	Holly, Odis Ben, 3A	Lubbock
Hazel, Lanoy, 4A	Spur	Hollyfield, Nola Mary, 1L	Shallowater
Hazel, Sybal, 1L	Spur	Holman, Wade, 1A	Jacksonville
Hazelwood, Billy, 1L	Mineral Wells	Holmes, Graham, 1L	Lubbock
Hazlewood, Calvin, 2L	Lubbock	Holmes, Jesse, 2L	Lubbock
Hazlewood, Obara, 1L	Stanton	Holmes, Wm. F., 3L	Shamrock
Hazlewood, Wilma, 1L	Stanton	Holt, Dennis, 1L	Lubbock
Headstream, Ray, 3L	Roby	Holt, Woodrow, 1L	Lubbock
Heard, Ruth, 1H	Crosbyton	Holtzclaw, Seth, 1L	Temple
Hearrell, Ruth Elizabeth, 4H	Lubbock	Hood, Odie A., 2L	Slaton
Hefner, LaNelle, 1L	Spur	Hooks, Merl L., 1L	Big Spring
Heggen, Lucille, 2L	Abernathy	Hooser, Elmo, 1L	Seymour
Heidel, F. L., 1L	Lovington, N. Mex.	Hoover, L. B., 1A	Ozona
Heierman, Daniel, 1A	Imperial	Hopkins, H. F., 4E	Lubbock
Helms, Robert R., 1E	Plainview	Hopper, John, 4L	Lubbock
Henderson, Eulala, 3L	Lubbock	Hopper, J. Sam, 4E	Wellborn
Henderson, Ruth, 1L	Idalou	Hopper, Mary Lou, 2L	Lubbock
Henderson, Alma Ruth, 1H	Post	Hopping, Patti, 3L	Lubbock
Hendrick, Ernestine, 1L	Rogers	Horne, Cecile, 4L	Lubbock
Hendricks, Mrs. E. E., 2L	Lubbock	Hcrocks, Lorryne, 3L	Lubbock
Henley, James R., 4L	Brownwood	Horton, Minnie, 1L	Hale Center
Henry, Andrew, 1E	Sanderson	Houghton, Jaunita, 1H	Lubbock
Henry, Gladys, 1L	Ralls	Houghton, Lynn, 2A	San Angelo
Henry Grafton, 1L	Slaton	House, Aubry M., 1L	Taylor
Henry, J. T., 1A	Sterling City	Houston, Lois, 1L	Levelland
Henry, Sam, 2A	Lubbock	Houston, Ruth Elizabeth, 1L	Plainview
Henry, Velma, 1H	Port Arthur	Howard, Vanroe, 1L	Crosbyton
Henson, C. J., 3L	Lubbock	Howell, Douglas, 1L	Enochs
Henson, Chas. A., 2E	Seymour	Howell, Harlan, 4A	Brownfield
Henson, Douglas, 3L	Sudan	Howell, James P., 1L	Lubbock
Henson, Mrs. Douglas, 1L	Lubbock	Howell, May Tom, 2H	Lubbock
Henson, Marguerite, 1H	Lubbock	Howell, Woodrow G., 1E	Lubbock
Herrrell, Lynn, 2L	Seymour	Hoyle, Mike, 2L	Roaring Springs
Herring, E. W., 3E	Mount Calm	Hubbard, Ted, 2E	Crane
Herring, John, 1E	Natalia	Hubbert, G. O., 2L	Olton
Herrod, Frances, 1L	Shallowater	Hubbert, Jasper, 2L	Fort Worth
Hess, Margaret, 1L	McLean	Hudgens, Merwyn, 1E	Wichita Falls
Hewlett, Bill, 1A	San Benito	Hudgins, Frank, 1L	Cleburne
Hewlett, J. P., 3A	San Benito	Hudman, Evelyn, 2L	Alpine
Hewlett, Judson, 1A	San Benito	Hudman, Kathryn, 1L	Alpine
Hewlett, Raymond, 1L	San Benito	Hudman, Wylie, 1E	Lubbock
Hicks, Helen, 1H	Roswell, N. Mex.	Hudson, Basil, 3L	Westbrook
Hicks, Hortense, 3L	Roswell, N. Mex.	Hudson, Elsie Marie, 1L	Novice
Hicks, John H., 1L	Pittsburg	Hudson, Laska Joy, 3H	Colorado
Hicks, Kenneth, 1L	Lubbock	Hudson, Wellborn R., 3L	Dallas
Hicks, Walter N., 2E	Corpus Christi	Huelster, Lenora, 2L	Balmorhea
Higgins, Lee, 1E	Gladewater	Huff, Wynona, 1L	O'Donnell
Higgins, Nell Rhea, 1L	Matador	Huffaker, Calloway, 2L	Wilson
Hightower, Elvis, 1A	Eastland	Hufstedler, Chester, 4A	Springtown
Hill, Basil, 4E	Lamesa	Hufstedler, Virginia, G	Lubbock
Hill, James H., 1L	Clovis, N. Mex.	Hughes, Madeline, 2L	Lubbock
Hill, Mabel, 1A	Beaumont	Hughes, Ola Irene, 4L	Lubbock
Hilton, Blanche, 1L	Clovis, N. Mex.	Hughes, W. F., 4A	Channing
Hinchey, John James, 1L	Glassport, Pa.	Hull, Doris, 2L	Lubbock

Hulsey, Lois, 1L ----- Dickens  
 Humphries, Daisimay, 3L ----- Lubbock  
 Humphries, Marlin, 2L ----- Liano  
 Hunt, Lucille, 3H ----- Claude  
 Hunter, D'Aun Sammons, G ----- Lubbock  
 Hunter, Frances, 2L ----- Claude  
 Hunter, Glenn, 2A ----- Gilmer  
 Hunter, Inez, 1H ----- Roby  
 Hunter, Pauline, 1L ----- Brownfield  
 Hunter, W. Hugh, 2L ----- Dallas  
 Hurmence, Howard, 2E ----- Lubbock  
 Hurmence, Ruth Frances, 1L ----- Lubbock  
 Huser, Robert, 4A ----- Granger  
 Hutchins, Stanton, 1L ----- Loraine  
 Hutchinson, Mrs. J. T., 3L ----- Lubbock  
 Hutchinson, Tom, 2L ----- Lubbock  
 Hutchinson, Ruth, 2L ----- Lubbock  
 Hyatt, J. W., 1L ----- Ralls  
 Hyde, John, 1A ----- Knox City

Immell, Kathryn, 1H ----- Borger  
 Ince, Leon, 2E ----- Cleburne  
 Ireland, Wright, 2L ----- Lubbock  
 Ison, Lonnie, 3L ----- Mangum, Okla.

Jack, Doris, 1L ----- Lamesa  
 Jackman, Louis, 1L ----- Lubbock  
 Jackman, Mary Lou, 1L ----- Lubbock  
 Jackson, Callie Ree, 2H ----- Lubbock  
 Jackson, Harvey, 4L ----- Roaring Springs  
 Jackson, J. M., G ----- Houston  
 Jackson, Jennie Lou, 3L ----- Lubbock  
 Jackson, Lonora, 2L ----- Morton  
 Jackson, Mack, 1A ----- Crosbyton  
 Jacobsen, John Jr., 4E ----- Hereford  
 Jagers, Jo Jewell, 1L ----- Lehman  
 James, Billy, 1L ----- Baird  
 James, Clyde W., 4L ----- Lubbock  
 James, Mrs. Jessie W., 4L ----- Idalou  
 James, Noble, 4E ----- Lubbock  
 Jarvis, H. R., 1E ----- Crane  
 Jay, Rebecca Marion, 3L ----- Lubbock  
 Jay, Theron L., 1E ----- Idalou  
 Jeffres, Addie, G ----- Forestburg  
 Jeffres, James Prentice, 3E ----- Amarillo  
 Jeffreys, Estelyne, 2L ----- Lubbock  
 Jeffreys, Evelyn, 2L ----- Lubbock  
 Jeffreys, Lois, 3L ----- Lubbock  
 Jeffus, Jean, 3E ----- Plainview  
 Jenkins, Ben, 4A ----- Gail  
 Jenkins, J. R., 1A ----- Gail  
 Jenkins, Orville W., 2L ----- Lubbock  
 Jennings, Helen, 3L ----- Lubbock  
 Jennings, Jean Shelly, 4L ----- Lubbock  
 Jennings, Kathleen, 3L ----- Plainview  
 Jensen, A. J., 4L ----- Clinton  
 Johnson, Arvie, 1H ----- Weatherford  
 Johnson, Bob, 1L ----- Meadow  
 Johnson, Bowlden, 1L ----- Lubbock  
 Johnson, Camille, 1L ----- Colorado  
 Johnson, Garvice, 2L ----- Jewett  
 Johnson, Homer, 1L ----- Crowell  
 Johnson, Jack, 2A ----- Dunn  
 Johnson, M. D., 1L ----- Midland  
 Johnson, Marjorie, 1L ----- Hope, N. Mex.  
 Johnson, Ober, 1E ----- Haskell  
 Johnson, Raymond E., 3E ----- Tyler  
 Johnson, Ruby Doris, 1L ----- Vernon  
 Johnson, Sally, 3L ----- Mart  
 Johnston, Dorothea, 2L ----- Crosbyton  
 Johnston, James A., 3E ----- Lubbock  
 Johnston, Joseph Rex, 1A ----- Lubbock  
 Johnston, Lennie D., 2L ----- Lubbock  
 Johnston, Louis, 2A ----- Crosbyton  
 Johnston, Mary Frances, 1H ----- Ralls  
 Jones, Bill, 1L ----- Anson  
 Jones, Boyce L., 1E ----- Hermleigh  
 Jones, Charlotte, 2L ----- Paint Rock  
 Jones, Clemen Sam, 1L ----- Abilene  
 Jones, Clydene, 1L ----- Lubbock  
 Jones, Delbert, 2E ----- Artesia, N. Mex.  
 Jones, E. W. Jr., 2A ----- Gatesville

Jones, Irene, 1H ----- Teague  
 Jones, Kelly, 1L ----- Loving  
 Jones, Lewis N., 1E ----- Cleburne  
 Jones, M. Woodson, 4L ----- Seagraves  
 Jones, Marie, 2L ----- Lubbock  
 Jones, Mattye Pearl, 1L ----- Tahoka  
 Jones, Merle, 2E ----- Lubbock  
 Jones, Norman Perry, 2H ----- Lubbock  
 Jones, Roy Edgar, 1E ----- Abernathy  
 Jones, Sam Hastings, 1E ----- San Angelo  
 Jones, Sara Tom, 2L ----- Coleman  
 Jones, Veralee, 4H ----- Tulia  
 Jones, Wilmer Jr., 1E ----- Floada  
 Jordan, Bennye Sue, 1L ----- Lubbock  
 Jordan, John L., 1L ----- Lubbock  
 Joseph, Lucian M., 1E ----- Cleburne  
 Judd, Eugene, 1L ----- Vernon

Karlin, Ruby Jo, 2L ----- Springer, N. Mex.  
 Karr, Ray, 2A ----- Spur  
 Kay, Hugh, 2E ----- Lubbock  
 Keaster, Vivian, 4L ----- Lubbock  
 Keen, Elizabeth, 1L ----- Spur  
 Keeter, Darwyn, 1L ----- Lubbock  
 Keeton, Jean Jaunette, 1L ----- Bynum  
 Keeton, Lenro, 1L ----- Bonham  
 Keffer, W. Douglas, 3E ----- Shattuck, Okla.  
 Keller, Glenna, 4L ----- Lubbock  
 Kelley, Frank, 2L ----- Pan pa  
 Kelley, J. W. Jr., 1L ----- Lipscomb  
 Kelley, Mary Edna, 1L ----- Tulia  
 Kelley, J. Dyché, 2E ----- Lubbock  
 Kelly, Leona Mae, 1L ----- Italo  
 Kelsey S. H., 2L ----- Lorenzo  
 Kelton, Norris, 3L ----- Baird  
 Kelton, Willard, 3E ----- Baird  
 Kempson, Leola, 1L ----- Leveland  
 Kennemer, Hubert C., 1L ----- Dallas  
 Kenner, Orvel, 1E ----- Lubbock  
 Kenner, Ruby, 1L ----- Lubbock  
 Kennon, John T., 4A ----- Godley  
 Kennon, Nellie Mae, 2L ----- Godley  
 Kerr, Emmett B., 2E ----- Lubbock  
 Kerr, Mrs. Jas. C., 3L ----- Lubbock  
 Kerr, Lewis, 1L ----- Lubbock  
 Kersey, Cecil Glenn, 4L ----- Lubbock  
 Key, Cecil, 1E ----- Lamesa  
 Key, Mrs. Claude, 3L ----- Lubbock  
 Key, Johnny, 1A ----- Wilson  
 Kight, Richard E., 1E ----- Claude  
 Kimbro, Albert M., 2E ----- Lubbock  
 Kimbrough, Rex, 1L ----- Ralls  
 Kincaid, Kenny H., 1L ----- Abilene  
 King, Andy L., 2L ----- Lubbock  
 King, Ann, 1L ----- Sudin  
 King, Arch L., 4E ----- Lubbock  
 King, Don, 2A ----- Brownfield  
 King, John L., 1E ----- Washoe, Mont.  
 King, Louise, 3L ----- Lubbock  
 King, Newell, 2L ----- Vernon  
 King, Warren, 1E ----- Vernon  
 Kinslow, Helen, 2L ----- Memphis  
 Kirby, Laverne H., 1E ----- Sherman  
 Kirkpatrick, Ann, 1L ----- Slaton  
 Kirkpatrick, Geraldine, 3L ----- Littlefield  
 Kirksey, Mary Mildred, 1L ----- Lorenzo  
 Kirksey, Milton, 4A ----- Lorenzo  
 Klein, Agnes, 4L ----- Los Angeles, Calif.  
 Klein, E., 1L ----- Waco  
 Klein, Mildred, 1L ----- Los Angeles, Calif.  
 Knapp, Roger S., 4L ----- Lubbock  
 Knight, Georgia, 4L ----- Lubbock  
 Knight, Mary, 1H ----- Lubbock  
 Knight, Pauline, 1L ----- Taylor Springs, N. Mex.  
 Kornegay, Robert, 1L ----- Dallas  
 Kral, Thos. Jr., 4E ----- Roby  
 Kuebel, Edgar, 4A ----- Spring Branch  
 Kuhn, Willet, 4E ----- Weatherford  
 Kunkel, Casey W., 1L ----- Lubbock  
 Kunkel, LaZette L., 3H ----- Lubbock  
 Kunkel, Thelma, 1H ----- Megargel

Labay, Walter, 2A ----- Granger  
 Laird, Mrs. S. M., 1L ----- Lubbock  
 LaMaster, Cyrus, 2L ----- Perryton  
 Lamb, Raymond, 1E ----- Bridgetown  
 Lancaster, David D., 2L Clovis, N. Mex.  
 Lancaster, Eloise, 3H ----- Teague  
 Lancaster, George Marvin, 1L ----- Clovis, N. Mex.  
 Lancaster, Preston, 1L ----- Teague  
 Land, Elizabeth, 1L ----- Lamesa  
 Landers, F. A., 1L ----- Jacksonville  
 Lane, Bill, 2E ----- Vernon  
 Lane, Dan C., 1E ----- Lubbock  
 Lang, Joe W., 4L ----- Kress  
 Langford, Geo., G ----- Frankell  
 Lankart, Edna, 2L ----- Waco  
 Larmer, Frances, G ----- Lubbock  
 Lauderdale, James, 3L ----- Saint Jo  
 Lawrence, Geraldine, 1L ----- Lubbock  
 Lawrence, June, 1L ----- Dallas  
 Lawson, Dennis L., 2L ----- Slaton  
 Lawson, Hazel, 1H ----- Lubbock  
 Lawson, Herman, 2L ----- Lubbock  
 Lawson, Layton, 1A ----- Lubbock  
 Lawson, Louise, 3H ----- Lubbock  
 Layton, Waymon, 1L ----- Athens  
 Leach, T. L., 4A ----- Brownwood  
 Leatherwood, Carson, 1L ----- Estelline  
 Leatherwood, Wilton, 1L ----- Estelline  
 Leaverton, Nancy Ruth, 1L ----- Lubbock  
 Leaverton, Rosemary, 1L ----- Lubbock  
 Leavitt, Laureline, 1L ----- Wilson  
 LeBus, Willie Lou, 1L ----- Henrietta  
 Ledbetter, Talbot, 1E ----- Brady  
 Lee, Ebbie, 4L ----- Lamesa  
 Lee, J. W., 1L ----- Earth  
 Lee, Naomi, 1L ----- Lubbock  
 Lehr, L. D., 1E ----- Lubbock  
 Leigh, Katherine, 1H ----- Lubbock  
 Leigh, Mary, 3H ----- Lubbock  
 Leifeste, Myrtle, 1H ----- Mason  
 Leonard, J. P., 1L ----- Prior Lake, Minn.  
 Leslie, C. E., 1L ----- Hermleigh  
 Lester, Marie, 2L ----- Sweetwater  
 Lewis, Billy, 1L ----- Sweetwater  
 Lewis, Jennings, 2L ----- Lubbock  
 Lewis, Novis, 4H ----- Lubbock  
 Lewis, Quanah, G ----- Lubbock  
 Lewis, Wm. Tom, 1L ----- Okra  
 Light, Ruth, 1H ----- Bula  
 Liles, Catharine, 1H ----- Vernon  
 Liles, Joe H., 2A ----- Dublin  
 Linccum, Andy, 1L ----- Idalou  
 Lindsey, Charlotte, 1L ----- Abernathy  
 Lindsey, Herbert E., 1L ----- Wellington  
 Lindsey, James L., 1L ----- Lubbock  
 Lindsey, John A., 4E ----- Lubbock  
 Lindsey, Margaret, 3L ----- Lubbock  
 Linn, Dollie Mae, 3H ----- Lubbock  
 Lippincott, George, 2L ----- Gage, Okla.  
 Lippincott, O. B., 1L ----- Gage, Okla.  
 Lisebmy, Doris, 1L ----- Lubbock  
 List, James Justice, 1L ----- Lovington, N. Mex.  
 Liston, Morrison, 3E ----- Wills Point  
 Little, Waldo B., 1L ----- Roswell, N. Mex.  
 Little, Woodrow J., 2L ----- Roswell, N. Mex.  
 Littlefair, Horatio G., 1L ----- Cleburne  
 Littlepage, Cleveland, 1A ----- Tahoka  
 Litton, Fred, 1E ----- Lubbock  
 Lock, J. H., 3L ----- Jacksonville  
 Lofland, Mary Earle, 2H ----- Vernon  
 Lofton, K. T., 2A ----- Post  
 Logan, Martha Belle, 4L ----- Lubbock  
 Logan, R. L., 3L ----- Lubbock  
 Loger, Eldon E., 2L ----- Lubbock  
 Lokey, Gerald, 2L ----- Lubbock  
 Lokey, Theresa, 1L ----- Lubbock  
 Lomax, Gertrude, 3H ----- Meridian  
 Long, Geo. B., 1L ----- Taft  
 Long, Lewis B., 1L ----- Albany  
 Longbotham, Mrs. L. H., 1L ----- Levelland

Loter, Henry, 3L ----- Kirkland  
 Loughmiller, Max, 1L ----- Canton  
 Loughridge, Katherine, 2H ----- Louisville, Ky.  
 Loughridge, Jas. A., 3E ----- Waco  
 Love, Ima Jewell, 1L ----- Anton  
 Lovelace, Paul Horn, 2L ----- Linden  
 Loveless, Lowry Clark, 1E ----- Lamesa  
 Loveless, R. Wells, G ----- Lamesa  
 Lowe, Evelyn, 1H ----- Brownfield  
 Lowe, Howard, 1E ----- Lovington, N. Mex.  
 Lowe, Vora, 3L ----- Lovington, N. Mex.  
 Lowry, John M., 2E ----- Plainview  
 Luce, William, 3E ----- Fort Smith, Ark.  
 Luper, Carlton E., 1E ----- Houston  
 Lupton, Katherine, 2L ----- Shallowater  
 Lupton, Louise, 4L ----- Shallowater  
 Lynn, W. E., 2L ----- Lubbock  
 Lyon, Willie Marie, 2L ----- Stamford  
 Lytle, Bonner, 1L ----- Quanah  
 Lytle, Ovel, 1H ----- Quanah  
 McAdams, Carl, 4E ----- Gordonville  
 McAdams, Carl Jr., 2L ----- Lockney  
 McAdams, Mary Leda, 1H ----- Lockney  
 McAdams, Obert, 1E ----- Henrietta  
 McAden, Maureen, 2L ----- Abilene  
 McAllister, Winifred, 1L ----- Tuxedo  
 McArthur, Maurine, 1L ----- Spur  
 McCarroll, John, 1L ----- Mobeetie  
 McCarty, Chester, 1L ----- Lubbock  
 McCarty, Harry, 1A ----- Lubbock  
 McCay, Bonnie, 2L ----- Idalou  
 McCay, Robbie, 2L ----- Idalou  
 McClain, Carl, 4L ----- Lubbock  
 McClain, Hope, 1H ----- Spur  
 McClure, Edwin, 2L ----- Jacksboro  
 McCollum, Curtis, 1E ----- Portales, N. Mex.  
 McCollum, Elmer, 1L ----- Norwood, N. J.  
 McCommis, J. W., 1L ----- Alamogordo, N. Mex.  
 McCoy, Allie Vista, 2L ----- Lubbock  
 McCrory, Jas. L., 3L ----- Lovington, N. Mex.  
 McCrory, Roy, 1E ----- Amherst  
 McCrummen, Allen, 1L ----- Lubbock  
 McCrummen, J. Lewis, 2A ----- Lubbock  
 McCrummen, Lucille, 3L ----- Lubbock  
 McCubbin, H. J., 1L ----- Prairie View, Ark.  
 McCuiston, Truett, 1A ----- Stamford  
 McCullough, Coy R., 1A ----- Lubbock  
 McDaniel, Foy, 1L ----- Rockwall  
 McDaniel, Raymond, 1L ----- Idalou  
 McDavid, Bill, 1E ----- Amarillo  
 McDonald, George, 2E ----- Fort Worth  
 McEachern, Lee, 1L ----- Crosbyton  
 McElroy, D. M., 1L ----- Dallas  
 McElroy, Frank, 1L ----- Lubbock  
 McElroy, Lee Hick, 2A ----- Eldorado  
 McElya, Oliver R., 4E ----- Lubbock  
 McFarland, Louie, 1A ----- Lubbock  
 McGinty, Albert, 1A ----- Eldorado  
 McGlothlin, Kathrine, 4L ----- Lubbock  
 McGlothlin, L. W., 2L ----- Lubbock  
 McGrady, John Bernard, 2E ----- Cisco  
 McGuff, Jack, 1L ----- Houston  
 McGuire, L. Glen, 1L ----- Gilliland  
 McHam, Joe F., 1L ----- Wichita Falls  
 McIlhaney, Jess, 3L ----- Lubbock  
 McInturf, Mrs. Sarah, 2L ----- Lubbock  
 McInturf, William, 1L ----- Lubbock  
 McKay, LaVerne, 1L ----- Lamesa  
 McKee, Frances, 1L ----- Lubbock  
 McKee, James P., 1L ----- Crosbyton  
 McKeever, Edward C., 2L ----- Spafford  
 McKelvy, William H., 1L ----- Memphis  
 McKenzie, Lois, 2H ----- Abernathy  
 McLain, Audrey, 1L ----- Floydada  
 McLane, C. J., 1E ----- Lufkin  
 McLane, Floyd, 2L ----- Lufkin  
 McNeese, Craig, 3E ----- San Antonio  
 McNeill, Jamie, 2L ----- Lubbock  
 McNeill, Mary Louise, G ----- Lubbock

McWilliams, Bennie, 2L ---- San Benito  
McWilliams, Pauline, 2L ---- McCamey

Maddox, Barbara, 2L ---- Tahoka  
Maddox, Charlene, 2L ---- Tahoka  
Maddox, Don, 4E ---- Menard  
Maddox, F. M., 2E ---- Lubbock  
Madeley, Robert A., 1E ---- Conroe  
Maedgen, Charles E., 2L ---- Lubbock  
Magee, Lawrence, 4E ---- Lubbock  
Magee, Ruth, 1L ---- Lubbock  
Magee, Virginia, 1L ---- Levelland  
Maggard, Mable, 4H ---- Hale Center  
Mahaffey, Martha Kate, 3L ---- Hillsboro  
Mallett, Clayton, 1L ---- Lubbock  
Maloney, Margaret, 1L ---- Goree  
Maner, Bailey, 1E ---- Hillsboro  
Manire, B. L., 4E ---- Slaton  
Manire, E. LeRoy, 2E ---- Slaton  
Manley, Thayer, 2E ---- Carnesville, Ga.  
Mann, Louise, 1H ---- Waco  
Manning, John, 1A ---- Fort Worth  
Mapes, Fred, 1A ---- Dimmitt  
Mapes, Joe, 1E ---- Dimmitt  
Marcia, Frances Kay, 1L ---- Fort Worth  
Marion, Travis, 1A ---- El Paso  
Marks, Leon, 1A ---- Clovis, N. Mex.  
Marr, John, 1L ---- Lamesa  
Marr, Lloyd M., 1L ---- Lamesa  
Marse, John J., 1L ---- Taylor  
Marshall, Douglas, 1A ---- Graham  
Martin, Almon, 1L ---- Lubbock  
Martin, Bill, 1E ---- Stamford  
Martin, Harrison, 1L ---- Lubbock  
Martin, J. T., 1A ---- Westover  
Martin, Malcolm, 2L ---- Lorenzo  
Mason, Cleo, 1L ---- Vernon  
Massay, Winifred, 3L ---- McLean  
Massey, Alma, 3L ---- Hale Center  
Mast, John, 3L ---- Lubbock  
Mathis, Kary, 4L ---- Lubbock  
Mathis, Mrs. Kary, 4L ---- Lubbock  
Maxey, Melba Mae Tatom, 4H Lubbock  
May, Gordon, 2L ---- Lubbock  
May, James Duesy, 1L ---- McKinney  
May, Zona, G ---- Lubbock  
Mayfield, Harold W., 1L ---- Temple  
Mayo, Loren, 1L ---- Petersburg  
Meacham, Wm., 1E ---- Crosbyton  
Means, Betsy, 1L ---- El Paso  
Meek, Emma Louise, 1L ---- Whitesboro  
Melendez, A., G ---- Guatemala, C. A.  
Meredith, Juanita, 1L ---- Lubbock  
Merrell, Edwin H., 1E ---- Shallowater  
Merriman, Florence, 2L ---- Wheeler  
Messersmith, Lawrence, 2L ---- Fort Worth  
Messersmith, Marvin, 3L ---- Fort Worth  
Metcalfe, Pearl, 1L ---- Lubbock  
Meyers, Marvin, 2L ---- Lubbock  
Meyers, O'Quin, 3E ---- Lamesa  
Meyers, R. L. Jr., 1E ---- Lamesa  
Michael, Harold, 1A ---- Ardmore, Okla.  
Miche, Sue, 2E ---- Lubbock  
Mickle, Jack, 3L ---- Lubbock  
Mickburn, Boyd P., G ---- Lubbock  
Miller, Alton, 4E ---- Hereford  
Miller, B. E., 1E ---- Royse City  
Miller, Don C., 1A ---- Greenville  
Miller, Fred C., 3E ---- Granbury  
Miller, Mrs. Jack, 1L ---- Lubbock  
Miller, Kimsey T., G ---- Lubbock  
Miller, Marilyn, 1L ---- Wichita Falls  
Miller, Mildred, 1H ---- Mason  
Mills, Elene, 1L ---- Sherwood  
Mills, Ellis M., 4L ---- Lubbock  
Mills, Elmer M., 2E ---- Weatherford, Okla.  
Milstead, Oleta, 1L ---- Cross Roads, N. M.  
Minor, Edward, 3L ---- Lubbock  
Minter, Marlin P. J., 3E Sulphur Springs  
Minzenmayer, Adolph, 1E ---- Winters  
Mitchell, Billie, 2A ---- Snyder  
Mitchell, C. E., 1L ---- Slaton

Mitchell, Eric L., 2L ---- Chaney, Okla.  
Mitchell, Eugene R., 3L ---- Collinsville  
Mitchell, Mrs. John D., 3H ---- Lubbock  
Mitchell, Raymond, 1L ---- Longview  
Mitchell, R. C., 1A ---- Lockney  
Mitchell, W. J., 2E ---- Fort Worth  
Moffett, Milton, 3L ---- Stanton  
Moffett, Wayne, 1L ---- Stanton  
Monroe, Carver, 1L ---- Silverton  
Montfort, Elizabeth, 2A ---- Lubbock  
Montgomery, Doris E., 1L ---- Darrouzett  
Montgomery, Opal, 4L ---- Lubbock  
Montgomery, Woodrow, 2L ---- Lubbock  
Moody, Haden, 3E ---- Becton  
Moody, Joe, 3L ---- Hawkins  
Moore, Alma, 1L ---- Shallowater  
Moore, Buford, 1L ---- Ropesville  
Moore, Charles, 2L ---- Lubbock  
Moore, Claudine, 1L ---- Lubbock  
Moore, Frank, 1L ---- Lubbock  
Moore, LaTrelle, 2L ---- Levelland  
Moore, Mrs. Lillie Dale, 3H ---- Ennis  
Moore, Mattie Sue, 2L ---- Hale Center  
Moore, Monta J., 1L ---- Merkel  
Moore, Thomas Odell, 2E ---- Ropesville  
Moore, Ray C., 3E ---- Hamilton  
Moore, Ruth Maurine, 3E ---- Lott  
Moore, T. Garland, 1L ---- Lubbock  
Moreman, Duke, 1A ---- Lubbock  
Morgan, Bernice, 1L ---- Spur  
Morgan, Mrs. Eloise, 2L ---- Lubbock  
Morgan, James D., 1A ---- Fort Worth  
Morgan, Viola, 3L ---- Spur  
Morris, Durward, 1L ---- Breckenridge  
Morris, Edna Nixon, 4L ---- Lubbock  
Morris, G. B., 2L ---- Seymour  
Morris, J. W., 3L ---- Toler  
Morrison, Mildred, 1L ---- Sulphur Springs  
Moses, Florence, 1L ---- Lampasas  
Mosley, A. Daniel, 1L ---- Rusk  
Mosley, Guy, 1L ---- Colorado  
Moss, James H., 1L ---- Bonham  
Moss, Thelma, 2L ---- Electra  
Moxley, J. Mason, 1L ---- Lubbock  
Mueller, Elmer, 1L ---- Wilson  
Mullins, Doris, 2L ---- Lubbock  
Mundine, Martin Richard, 1L ---- Lubbock  
Munroe, Harrison, 4L ---- Abilene  
Murchison, Jack F., 1E ---- Wichita Falls  
Murphy, Jewell, 1L ---- Lubbock  
Murphy, Martin, 2A ---- Dunn  
Murray, Billie, 2A ---- Lubbock  
Murray, Ethyl, 1H ---- Lubbock  
Myers, Ada, 4L ---- Cleburne  
Myrick, Roberta, 2L ---- Lubbock

Nachlinger, Helen, 1L ---- Hermleigh  
Nail, J. H., 1L ---- Petrolia  
Nance, Bonnie R., 1L ---- Justiceburg  
Nance, Mina R., 1L ---- Justiceburg  
Nash, Edward, 2A ---- Palestine  
Neal, Nora, 4L ---- Rule  
Neal, T. E., 1L ---- Abilene  
Neaves, Imogene, 1L ---- Dickens  
Neel, J. W., 1E ---- Coahoma  
Neeper, Mrs. Fred, 3L ---- Sweetwater  
Neill, Billy, 1E ---- Athens  
Neill, Frank, 1L ---- Cleburne  
Neill, Vernon, 4E ---- Lubbock  
Nelle, Wm. H., G ---- Laredo  
Nelson, Ernest, 4L ---- Lubbock  
Nelson, Lomar, 3L ---- Lubbock  
Newberry, S. E. Jr., 1L ---- Afton  
Newell, Francis, 2E ---- Roswell, N. Mex.  
Newman, Homer, 1L ---- Meadow  
Newman, Louella, 2L ---- Meadow  
Newman, S. T., 2L ---- Lubbock  
Newman, Mrs. S. T., 4L ---- Lubbock  
Newsom, Jesse George, 1L ---- Wienert  
Newton, Dalton, 1L ---- Lehman  
Newton, Glen, 1E ---- Idalou  
Newton, John, 2E ---- Idalou



Niblack, Jack Magee, 1A ----- Lubbock  
 Nichols, Murray, 2L ----- De Leon  
 Nichols, Rita A., 2L ----- Roaring Springs  
 Nichols, Walker, 1L ----- San Angelo  
 Nickens, Zoe, 2L ----- Lawn  
 Nimmo, Jack, 2L ----- Lubbock  
 Nissley, Jean Davies, 1L ----- Lubbock  
 Nixon, George, 1L ----- Harrold  
 Nixon, Paul, 2L ----- Harrold  
 Nixon, Walton M., 3A ----- Waco  
 Noah, Eugene, 1E ----- Seymour  
 Norris, Clayborn, 1L ----- Quitman, M. ss.  
 Norton, Obie Wm., 2A ----- Dallas  
 Nott, Willard M., 4E ----- Waco  
 Nunn, John, 2L ----- Abertatny  
 Nystel, Garland A., 1E ----- Abertatny  
 Nystel, Merrill E., 1H ----- Abertatny

O'Brien, Georgie, 1H ----- Wickett  
 Odom, Lorena, 1L ----- Lubbock  
 Oglesby, Vivian, 2L ----- Lubbock  
 O'Hair, Rob, 3L ----- Lubbock  
 Olbeter, Louis T., 2L ----- Clayton, N. Mex.  
 Oliphint, Lorene, 1L ----- Quanah  
 Olsen, Dorothy, 3L ----- Seymour  
 O'Neal, Sim Jr., 1A ----- Big Spring  
 O'Neill, Chas. F., 3L ----- Lubbock  
 O'Neill, T. Roderick, 3L ----- Lubbock  
 Ooley, Joyce, 2L ----- Plainview  
 Orr, Duane, 4E ----- Hereford  
 Orr, Mark, 1L ----- Idation  
 Orr, Rogers, 2L ----- Hereford  
 Overstreet, R. Win, 1E ----- Lubbock  
 Owen, Truett, 2L ----- Shernian  
 Owens, Lou Allie, 2L ----- Lubbock

Pace, James H., 1L ----- Athens  
 Page, J. T., 2E ----- Fort Worth  
 Painter, Myrtis, 2L ----- Lamesa  
 Painter, Raymond, G ----- Lubbock  
 Palmer, Mary Helen, 1L ----- Levelland  
 Palmer, Morris N., 1E ----- Albany  
 Pancake, Mickey, 2L ----- Hico  
 Parake, Winona, 3L ----- Lubbock  
 Parish, Evelyn, 1L ----- Big Lake  
 Parish, Lillian, 1L ----- Big Lake  
 Parker, Dovie, 1L ----- Amarillo  
 Parker, Edwin, 2L ----- Wellington  
 Parker, John Merle, 1A ----- Seminole  
 Parker, Thorpe, 1L ----- Eldorado  
 Parker, Travis, 4E ----- Sudan  
 Parker, Weldon, 1A ----- Garden City  
 Parkinson, Francis, 3L ----- Amarillo  
 Parks, Janet, 1L ----- Hope, N. Mex.  
 Parks, Joshua, 2E ----- Cleburne  
 Parmley, Nell, 4L ----- Strawn  
 Parsons, L. E., 2E ----- Sylvester  
 Patten, Maurine, 4L ----- Dallas  
 Patterson, Howard, 2E ----- Lubbock  
 Patterson, Ila Steele, 3L ----- Quitaque  
 Patterson, Lou Ella, 1L ----- Petersburg  
 Patterson, M. L., 3L ----- Big Spring  
 Pattillo, Paul, 1L ----- Lordsburg  
 Patton, Mrs. Carl, 1L ----- Lubbock  
 Patty, Wm. E., 4L ----- Lubbock  
 Pavelka, Anton Tony, 1L ----- Dallas  
 Payne, Beatrice, 1L ----- Sliton  
 Payne, Herman, 1L ----- Lubbock  
 Payne, J. Benton, 1E ----- O'Donnell  
 Payne, Leland D., 4L ----- Eddy  
 Payne, T. H., 1L ----- Lubbock  
 Payne, Troy, 1L ----- Turkey  
 Peden, Donald, 2L ----- Hedey  
 Pederson, M. G., G ----- Clifton  
 Pendleton, Walter, 3L ----- Shamrock  
 Penn, Fred H., 1L ----- Hobbs, N. Mex.  
 Penney, Earl B., 1L ----- Lubbock  
 Perrin, Dick, 2A ----- Floyd, Ariz.  
 Perea, Harper P. W., 2L ----- Lubbock  
 Perkins, Everett, 4E ----- Ennis  
 Perry, Edgar, 1A ----- Lubbock  
 Perry, Kyle E., 1E ----- Liberty  
 Perry, Raceil, 1H ----- Levelland

Perryman, Kirby, 1L ----- Gatesville  
 Peterson, Vaughn, 1L ----- Delta, Utah  
 Peveto, Audrey, 4L ----- Lubbock  
 Pharr, E. G., 2L ----- Cooper  
 Phillips, Clifford, 1L ----- Petersburg  
 Phillips, Harris, 2L ----- Wellington  
 Phillips, Raymond, 2L ----- Thalia  
 Pickett, J. B., 2L ----- Kemper  
 Pickett, Lyall, 2L ----- Post  
 Pierce, Joe S., 1A ----- Ozona  
 Pierce, R. Q., 3L ----- Lubbock  
 Piercy, Helen, 2L ----- Lubbock  
 Pipes, J. Ray, 1L ----- Crowley  
 Pirtle, Maureen, 1H ----- Clovis, N. Mex.  
 Pitts, Christina, 3L ----- Hillsboro  
 Pitts, Mrs. E. L., 2L ----- Lubbock  
 Pitts, Lois, 1L ----- Lubbock  
 Plain, Billie, 2L ----- Lubbock  
 Plemons, Elmore, 4L ----- Matador  
 Poe, Carolyn, 4L ----- Harrisonville, Mo.  
 Poe, T. B. Jr., 2A ----- Winters  
 Pool, Jim Bob, 1L ----- Brady  
 Pool, Juanita, 4L ----- Lubbock  
 Pool, Phyllis, 3L ----- Lubbock  
 Poole, W. C., 1L ----- Dallas  
 Poole, Warren, 3L ----- Floydada  
 Pope, Jack, 1L ----- Waco  
 Pope, Royce, 2A ----- Levelland  
 Porterfield, W. L., 1L ----- Lamesa  
 Potet, Sybil, 1L ----- Lubbock  
 Potts, Bill, 1E ----- Lubbock  
 Potts, James, 4A ----- Lubbock  
 Potts, Mrs. J. Frank, 3H ----- Lubbock  
 Potts, Jim Frank, 3E ----- Lubbock  
 Potts, Wayland, 1E ----- Lubbock  
 Pqwell, David D., 2L ----- Lubbock  
 Powell, Owen, 2E ----- Ballinger  
 Powers, Joe Bailey, 2L ----- Lubbock  
 Powers, Warren, 4L ----- Lubbock  
 Powers, Woodrow, 1L ----- Lubbock  
 Pratas, Geo., 3L ----- Breckenridge  
 Prather, Harold, 1L ----- Greenville  
 Pressley, Bob, 1L ----- Lubbock  
 Prestwich, A. T., 2L ----- Idaho Falls, Idaho  
 Pribble, Foy, 1A ----- Hamlin  
 Pribble, Iris, G ----- Hamlin  
 Price, Evelyn, 1H ----- Waco  
 Price, Hazel, 4H ----- Lubbock  
 Price, Howard, 2L ----- Lubbock  
 Price, Howard A., 1A ----- Lubbock  
 Price, Juanita, 4L ----- Lubbock  
 Price, Marie, 4L ----- Lubbock  
 Price, Paton, 1L ----- Lubbock  
 Price, Yancey, 2L ----- Lubbock  
 Priddy, Lawrence, 3L ----- Gainesville  
 Priddy, Mrs. Lawrence, 2L ----- Willmet, Ill.  
 Priest, Benjamin, 1E ----- Rusk  
 Probasco, D., 2E ----- Floydada  
 Proctor, Ada Leora, 1H ----- Brownfield  
 Proctor, Tolbert, 2L ----- Merkel  
 Puckett, Brode, 1L ----- Post  
 Puryear, Lela D., 4L ----- Lubbock  
 Pyatte, Johnnie V., 2L ----- Lubbock

Ragsdale, W. W., 2E ----- Santa Anna  
 Raley, Sherill, 1L ----- Bryson  
 Rampy, Woodrow, 1L ----- Lubbock  
 Ramsey, Frances, 3L ----- Wichita Falls  
 Randolph, Joe W., 1A ----- Seminole  
 Randolph, Pauline, 1L ----- Lubbock  
 Randolph, Vida, 1L ----- Lubbock  
 Rankin, J. S., 4L ----- Kenna, N. Mex.  
 Raun, Effie, 1L ----- El Campo  
 Rawdon, Myrtice, 1L ----- Floydada  
 Read, John G., 3L ----- Hillsboro  
 Read, Shelby Graham, 4L ----- Henderson  
 Rector, Ernestine, 1L ----- Hermleigh  
 Reddell, Marie, 3L ----- Tulsa  
 Redman, Sylvia, 2L ----- Meadow  
 Redmon, Edward, 2E ----- Marshall  
 Redwine, Mrs. E. L., 1L ----- Swearingen  
 Reed, Clarence, 4L ----- Corsicana

Reed, James Howard, 1E	Lubbock	Rush, Ernest E., 3L	Post
Reed, May, 3H	Vernon	Rush, Mrs. Ernest E., 3L	Post
Reed, Ruth W., 4L	Lubbock	Rush, George P., G	Durant, Okla.
Reed, Thelma, 1L	Vernon	Rushing, Dorothy, 4L	Lubbock
Reed, W. B., 1L	Abilene	Rushing, Lowell, 1E	Vernon
Reese, J. C., 2A	Lubbock	Russell, Sally, 1L	Bonham
Reeves, Blanche, 1H	Hale Center	Rutledge, David, 1L	Fort Worth
Reeves, Lloyd S., 4E	Pallas	Rutledge, Ruth, 1L	Floydada
Reeves, Winston, 1E	Plainview	Rylander, Ruth Mildred, 3L	Lubbock
Reid, Delene, 4H	Cyde		
Renfro, Jas. R., 4E	Lubbock	Salser, Allene, 1L	Lamesa
Renfro, Marvin C., 4L	Lubbock	Sams, Geraldlee, 1E	Lockney
Renken, John G., 1L	Dallas	Sams, Rex Beach, 1L	Lockney
Renn, Alfred, 1L	Elkart, Ind.	Sams, Van Earl, 4E	Benjamin
Reyno'ds, Ernestine, 4L	Lubbock	Samson, Gertrude, 2H	Post
Richardson, Lee, 1L	Megargel	Sanders, A. C., 2L	Lubbock
Richeson, Warren W., 4L	Somerville	Sanders, Elizabeth, 1L	Anton
Richter, Jimmie, 2L	Taylor	Sanders, Hugh Wallace, 1L	Haskell
Riegel, Zella E., G	Urbana, Ill.	Sanders, J. Oran, 4E	Big Spring
Riegger, Sam, 1E	Greenville	Sanderson, Kermit, 1L	Electra
Rigler, A. B., 1A	Plainview	Sanderson, Lena Grace, 3L	San Saba
Riley, Evans, 2E	Kansas City, Mo.	Sansom, Myrtle, G	Lubbock
Ripps, James L., 2E	Big Spring	Sawyer, Christova, 4il	Brownfield
Roach, Harriette, 3L	Lubbock	Scarbroough, B. W., 2L	Lubbock
Roberson, H. L., 2L	Lorenzo	Schaffner, Alfreda, 1L	Wilcox
Roberts, Carroll, 1L	San Benito	Schantz, Gertrude, 1L	Lubbock
Roberts, Frank W., 2A	Floydada	Scharnberg, Curtis, 2L	Lubbock
Roberts, Henry, 2L	Lubbock	Schofield, Arnold, 3L	Lubbock
Roberts, Homer, G	Sweetwater	Schofield, William, 1L	Lubbock
Roberts, Hope, 1L	Lubbock	Schooler, Rebecca, 1H	O'Donnell
Roberts, Jimmie, 2L	Lubbock	Schroeter, Paul M., 1L	Abernathy
Roberts, Joe Ben, 1E	Crowell	Schulz, Howard, 1E	Eden
Roberts, Margauite, 1L	Post	Schwalbe, Cecil O., 2L	Jonesboro
Roberts, N. Oline, 2L	Celina	Scoggin, Mack, 1L	Lubbock
Roberts, Prudence, 1L	Breckenridge	Scott, Bessie, 1L	Morton
Roberts, Rector P., G	Dallas	Scott, E. A., 1L	Denton
Roberts, Stiles M., 4E	Lubbock	Scott, Edward L., 1L	Georgetown
Roberts, Tracy, 2L	Lubbock	Scott, Howard W., 2L	Madill, Okla.
Roberts, Wilbur E. Jr., 1L	Lubbock	Scott, Joel W., 2L	Waxahachie
Robertson, Dorothy, 1L	Lubbock	Scott, Marjorie, 2L	Lubbock
Robertson, G. Monroe, 1L	Tolleson, Ariz.	Scott, Mary Alyce, 2L	Lubbock
Robertson, Margaret Carroll, 4E	Lubbock	Scott, Nina, 1L	Lamesa
Robinson, Angie Haynes, 2L	Fluvanna	Scott, Ruby, 1L	Spur
Robinson, Bill, 1E	Canyon	Scott, T. Q., 2L	Lubbock
Robinson, Raymond, 1L	Post	Scott, Wendell, 1L	Plainview
Robinson, Willie M., 2L	Hollis, Okla.	Scudder, Henry, 1L	Dallas
Robison, Catherine, 2L	Lubbock	Seale, Allen B., 4L	Eastland
Robison, Polk, 3L	Lubbock	Seale, Orris, 2L	Lorenzo
Rodgers, Artie, 2L	Lubbock	Seaman, O. R. Jr., 2L	Mineral Wells
Rce, Romee O., 1E	Seymour	Sears, Enid D., 1L	Snyder
Rogers, Carl P., 3L	Houston	Sears, Lorraine, 2L	Lubbock
Rogers, Pwain, 1E	Lubbock	Seely, Fred, 4L	Englewood, Colo.
Rogers, Evelyn M., 1L	Lubbock	Self, Adelaide, 1L	Quiraque
Rogers, Comer Gamble, 1L	Irion	Self, Mary Frances, 2H	Crowell
Rogers, Hildron, 2L	Lubbock	Tellers, Ferdinand, 1L	Melvin
Rogers, Jackie Lucille, 3L	Plainview	Senter, Mary F., 4L	Lamesa
Rogers, Jesse A., 3E	Houston	Senter, Ruth, 1H	Lamesa
Rogers, Milford S., 2L	Royse City	Server, Arnolia, 2L	Rochester
Rogers, Oleta, 1L	Idalou	Settle, Helen, 1H	Baird
Rogers, Waltrude, 3L	Lubbock	Settle, J. Doyle, 4L	Alternaty
Rogers, Willie, 1A	Lubbock	Shad'e, Hermona, 1L	Aspermont
Kohrer, Vern, 1A	Springtown	Shaf, Kenneth, 1L	Sweetwater
Rollins, Ida Lee, 2L	Littlefield	Shahan, Everett T., 1E	Lipscomb
Rollo, Kenneth, 3L	Lubbock	Shamburger, Roy T., 3E	Fort Worth
Roper, R. B., 1L	Cleburne	Shannon, Katherine, 1L	Levell nd
Rose, Jessie Mae, 1H	Ropesville	Shannon, Mary Lucy, 2L	Levelland
Rose, Katherine, 2H	McAdoo	Shaw, Letha, 1H	Groom
Rose, Lucell, 1H	McAdoo	Shaw, Marion, 2L	Littlefield
Ross, Douglas W. Jr., 3E	Brownwood	Sheely, Mary Beth, 4L	Lubbock
Ross, Margaret G., 2L	Sweetwater	Shepard, John, 4A	Lubbock
Ross, Samette, 2L	Plainview	Sherley, Theola, 2L	Plainview
Rosser, Harry, 1E	Big Spring	Sherrill, Dorothy I., 2H	Kerens
Rcsser Mouzon, 1E	Dallas	Sherrill, Maggie Mae, 2L	Seagraves
Roth, C. N., 3L	Wilcox	Shields, Doris, 2H	Lubbock
Russell, W. A., 3E	Brownwood	Shipman, Lawrence, 2A	Fluvanna
Rowe, E. S., 1E	Littlefield	Shirley, Cecil, 3L	Alternaty
Rowland, Virgil, 4L	Anton	Short, Eddie L., 2L	Hurlwood
Rowley, Theodore, 4E	Lubbock	Shropshire, Mary L., 2L	Lubbock
Royalty, Catherine, 1L	Lubbock	Shultz, Lou Ann, 1H	Lubbock
Royalty, Marion, 2E	Lubbock	Shultz, S. S., 1E	Lubbock
Royalty, Mrs. W. W., 1L	Lubbock	Sides, King J., G	Estancia, N. Mex.
Rucker, Mildred Ruth, 2L	Slaton	Sidlo, George, 1E	Imperial

Simmons, E. Clifford, 4E	Santa Anna	Stafford, Mavis, 1L	Afton
Simmons, Eleanor, 2L	Lubbock	Stallings, Kathryn, 2L	Post
Simmons, H. Duncan, 4H	Carlsbad, N. M.	Standhardt, Frank, 1E	Roswell, N. Mex.
Simmons, Mrs. K. M., 2L	Portales, N. Mex.	Stanfield, Azalea, 1H	Anton
Simmons, Virginia, 3L	Coleman	Stanfield, Eunice, 1L	Anton
Simms, Geo., 3L	Panhandle	Stanphill, Vinson C., 1L	Denison
Sims, Archie, 1L	Personville	Stansell, J. C., 1E	Lubbock
Sims, Aulsie, 2L	Personville	Stanton, Billy, 3E	Lubbock
Sims, Virginia, 1H	Lubbock	Stayton, Logan, 2L	Wichita Falls
Singley, Tarsey, 1L	Lubbock	Steele, John B., 1A	Lubbock
Skinner, George, 1E	Lubbock	Steele, Roberta, 2H	Levelland
Slaton, O. L. Jr., 1L	Lubbock	Steen, E. R., 3A	Loving
Slaughter, Leona, 1L	Sudan	Steger, Olive, 1L	Dallas
Sloan, Evelyn, 1L	Crowell	Stell, Wayne, 2L	Idalou
Smalley, Hovel, 2L	Shallowater	Stephens, Dorothy, 2H	Lubbock
Smith, Ann, 1L	Lubbock	Stephens, Jack, 1E	Cleburne
Smith, Arland, 2A	Colorado	Stephens, W. A., 2L	Cleburne
Smith, B. D. Jr., 2L	Lubbock	Stephenson, Durward, 1L	Estelline
Smith, B. T., 1L	Tahoka	Sterling, Hazel, 1L	Ropesville
Smith, C. Warren, 1L	Lubbock	Sterrett, Philip, 2E	Abernathy
Smith, Chas. E. Jr., 1L	Kerens	Stevens, LaVern, 1A	Littlefield
Smith, Dave, 2L	Lubbock	Stevens, Sarah Lou, 2L	Coleman
Smith, Del, 1L	Brownfield	Stevenson, Glenn, 1L	Lockney
Smith, Doris, 1L	Lubbock	Stewart, Alice, 1H	Lockney
Smith, Dyer S., 2L	Big Spring	Stewart, Anice, 1H	Lockney
Smith, Effie, 4H	Crosbyton	Stewart, Charles, 1L	Wylie
Smith, Ellen, 1L	Ralls	Stewart, Frances, 2L	Lubbock
Smith, Elton, 4E	Longworth	Stewart, Jay, 1E	Aspermont
Smith, Emma, 1L	Childress	Stewart, Lenora, 3L	Waco
Smith, Eugenia, 3L	Sherman	Stewart, T. H. Jr., 4L	Lubbock
Smith, Evelyn L., 2L	Fort Stockton	Stiles, Zona, 3L	Anna
Smith, Mrs. F. P., 4L	Abilene	Still, A. Chas., 1A	Fort Worth
Smith, Fulton, 1L	Littlefield	Stine, J. Bryan, 4A	Amarillo
Smith, Garland, 3L	Lubbock	Stine, Lulu, G	Lubbock
Smith, Georgia M., 2H	Crosbyton	Stitt, Wm. T., 4E	Fort Worth
Smith, Harvey, 1L	Lubbock	Stobaugh, Camille, 2L	Coleman
Smith, I. Louis, 1E	Coleman	Stocking, Jerome, 1L	Plainview
Smith, Ima, 1L	Ralls	Stokes, Arledge, 3E	Abilene
Smith, J. C., 1E	Slaton	Stokes, Erma, 2L	Lubbock
Smith, J. H., 1L	Big Spring	Stokes, Louis, 1L	Kaufman
Smith, J. P., 2A	Littlefield	Stokes, W. T., 2L	Lubbock
Smith, Lee, 1E	Lubbock	Stone, Greta, 1L	Vernon
Smith, Marlin J., 1L	Lubbock	Stone, Jimmie, 1L	Dallas
Smith, Mary E., 1L	Hobbs, N. Mex.	Stone, Yone, 2L	Vernon
Smith, Mary Helen, 1L	Littlefield	Stovall, Genell, 1L	Floydada
Smith, Maxene, 3L	Lubbock	Stovall, R. L., 1L	Lubbock
Smith, Orville, 2L	Lubbock	Stover, Gene, 1L	Loving
Smith, Preston, 2L	Lamesa	Straley, Edith, 1L	Lubbock
Smith, Rueben, 2L	Kerens	Strawn, Estle H., 2L	Howe
Smith, Travis, 2L	Winters	Strawn, Horace, 1A	Littlefield
Smyth, Jot Jr., 2A	Lubbock	Street, Bill, 1L	Littlefield
Sneed, Mary, 1L	Pampa	Street, K. Willow, 1A	Dickens
Sneed, Louise, 3L	Dalhart	Street, Mrs. Marguerite, 1L	Dickens
Snodgrass, Floyce, 2L	Lubbock	Street, W. E., G	Lubbock
Snyder, Frances, 2L	Lubbock	Strickland, Dale, 1E	Floydada
Snyder, Ralph H., 1L	Moran	Strickland, J. D., 3A	Silvertown
Soape, Carol, 2L	Idalou	Stubbs, Edith, 1L	Lubbock
Sollis, L. J., 2L	Sherman	Stubbs, W. F., 3A	Corpus Christi
Song, Laura L., 4H	Chung San, Korea	Stults, A. Carl, G	Dallas
Southworth, Herbert, G	Lubbock	Stultz, Francis, G	Post
Spacek, Clarence, 3A	Granger	Sturdivant, Ira L., 3A	Springtown
Spalding, Harold M., 1L	Marshall	Sturgeon, Gladys, 1L	Lubbock
Sparkman, Wendell, 2E	Santa Anna	Sturgeon, Oletha, 1L	Lubbock
Sparks, Leon, 3E	Saltito	Suddath, Edward E., 1L	Henrietta
Sparks, Robert E., 3E	Abilene	Suits, Jeane, 3L	Lamesa
Spaulding, Annie Byrd, 2L	Lubbock	Sullivan, Chestley, 1L	Temple
Spears, Glin, 1L	Seymour	Sullivan, Verna Mae, 1H	Wolfforth
Spencer, Gaster R., 4L	Lubbock	Sumner, Pauline N., 4L	Idalou
Spencer, James, 3E	Athens	Sumpter, Alceia, 1L	Follett
Spikes, Addie, 2L	Lubbock	Surratt, David W., 1L	Clint
Spikes, Wilda, 3H	Ralls	Sutton, Billie M., 1L	Dolores, Colo.
Spikes, Wilma, 3H	Ralls	Swain, William H., 1L	Goose Creek
Spring, Mary, 4L	Friona	Swan, Athalie C., 1L	Ralls
Springer, Grover, 1L	Lenorah	Swafford, Mildred F., 2L	Slaton
Suhler, Frank, 3E	Tucumcari, N. Mex.	Sweet, Edwin L., 1L	Blackwell
Spykes, Virginia, 1L	Hermleigh	Symes, Edward, 1E	Waco
Spykes, Weta, 1L	Hermleigh		
Squyres, Paul, 2E	Lubbock	Tadlock, J. H., 4E	Amarillo
St. John, Earl, 1L	Royse City	Tagert, Roger, 1E	Corpus Christi
St. John, Marjorie, 1L	Roswell, N. Mex.	Tannery, Luther L., 1L	Lubbock
Stafford, Donovan, 2E	Lubbock	Tate, Garvin, 2L	Sherman
		Tate, R. L., 1L	Lubbock



Tate, Thomas Penny, 1A ---- Cuba, Ala.  
 Tatom, L. C., 1L ---- Lubbock  
 Tatum, Jno. E., 1E ---- Waco  
 Tatum, Mariam, 1H ---- Lubbock  
 Taulman, Parker H., 3L ---- Fort Worth  
 Taylor, Alex, 4L ---- Tahoka  
 Taylor, Bob C., 3L ---- Stratford  
 Taylor, Frank, 1A ---- Fluvanna  
 Taylor, Joe B., 2A ---- Lubbock  
 Taylor, Joe F., 4L ---- Amarillo  
 Taylor, Larry, 2E ---- Lubbock  
 Taylor, Marguerite, 3L ---- Ferriday, La.  
 Taylor, Thomas N., 1L ---- Cleburne  
 Taylor, Vivian, 2L ---- Childress  
 Teal, Bill, 3L ---- Enochs  
 Temple, Wm. Paul, 1L ---- Temple  
 Terrell, Byron, 2L ---- Lubbock  
 Terrell, Cecil, 1L ---- Lubbock  
 Terrell, E. E., 1L ---- Lubbock  
 Terry, Beulah Beth, 1L ---- Artesia, N. M.  
 Terry, Harold, 1L ---- Floydada  
 Thomas, Bonnie, 3L ---- Lubbock  
 Thomas, Carlton R., 1L ---- Blum  
 Thomas, Chas. Edward, 2L ---- Lubbock  
 Thomas, Hattie Mae, 3L ---- Claude  
 Thomas, J. C. Jr., 3L ---- Holliday  
 Thomas, Jack, 3E ---- Lubbock  
 Thomas, Mary Louise, 3H ---- Lubbock  
 Thomas, T. K., 1A ---- Lubbock  
 Thomas, Wm. T., 2E ---- Lubbock  
 Thompson, Buster, 3L ---- Paris  
 Thompson, Carroll, 3L ---- Lubbock  
 Thompson, Frank, 1E ---- Cleburne  
 Thompson, Gwendolyn, 2L ---- Lubbock  
 Thompson, Joe O., 1L ---- Abernathy  
 Thompson, Judson, 1L ---- Rotan  
 Thompson, Novaline, 1L ---- Breckenridge  
 Thompson, Ruth Anna, 3H ---- Lubbock  
 Thompson, Sam, 1L ---- Augusta, Ark.  
 Thornton, Bates, 2L ---- Lubbock  
 Thrift, D. C., 1L ---- Sanderson  
 Thurman, Ethel, 3L ---- Cisco  
 Tipps, Bob, 4L ---- Lubbock  
 Titsworth, Lois Nell, 1L ---- McCamey  
 Toland, Faye, 1L ---- Quanah  
 Tolbert, Hunter, 1L ---- Lubbock  
 Tolbert, J. Frank, 3L ---- Lubbock  
 Toole, Virginia, 1L ---- Lamesa  
 Toothaker, James C., 2L ---- Downs, Kaus.  
 Touchtone, Lorene, 2L ---- Teague  
 Townsend, George, 1A ---- Lubbock  
 Townsend, J. N., 2L ---- Wilson  
 Townsend, Mark, 1E ---- Lovington, N. M.  
 Tracy, Robert L., 2L ---- Houston  
 Treadway, Gordon, G ---- Lamesa  
 Tribble, Lester, 2L ---- Sherman  
 Trigg, Ross H., 1A ---- Wichita Falls  
 Trimm, Leo C., 1E ---- Belen, N. Mex.  
 Triplett, Rouble, 1L ---- Lubbock  
 Trotter, Genevieve, 2L ---- Lubbock  
 True, Martin, 1E ---- Lockney  
 Tubbs, Billy, 1L ---- Lubbock  
 Tunnell, Fleda, 4L ---- Duffan  
 Turner, Geraldine, 2L ---- Lubbock  
 Turner, Joe, 1L ---- Lubbock  
 Turner, John F., 2E ---- Santa Anna  
 Turner, Lacy, 4L ---- Claude  
 Turner, Lawrence, 1L ---- Claude  
 Turner, Mary Lou, 1L ---- Idalou  
 Turner, Rose Marie, 1L ---- Lubbock  
 Turner, Rowena, 4L ---- Lubbock  
 Ullrich, Anton, 3E ---- Waco  
 Underwood, Elizabeth, 4H ---- Andrews  
 Underwood, Forrest, 1E ---- Big Spring  
 Underwood, W. R. Jr., 4E ---- Bartlett  
 Vandagriff, Dorothy, 2L ---- Lubbock  
 VanMeter, Marjorie, 2L ---- McAdoo  
 Vannoy, Clifford D., 4L ---- Lubbock  
 Vannoy, Jerome D., 1L ---- Corpus Christi  
 Vannoy, Vance, 3E ---- Corpus Christi  
 Varnell, Robert, 1L ---- Barry

Vaughn, Davis, 1L ---- Lubbock  
 Vaughan, Leroy W., 2L ---- Lubbock  
 Vaughn, Robert, 2E ---- Victoria  
 Vaughn, Voyle, 1L ---- Lubbock  
 Vaught, Ance, 1E ---- Pampa  
 Vaught, Clemmie Jane, 4L ---- Slaton  
 Vernon, Ethel, 1L ---- Hermleigh  
 Vernon, Mrs. Vera F., 2L ---- Lubbock  
 Vick, Curtis L., G ---- Cleburne  
 Vickers, John, 4L ---- Lubbock  
 Von Rosenberg, Lessie M., 1H Lubbock  
 Vowell, J. D., 2L ---- Dalhart

Wade, Gem, 1L ---- Clairemont  
 Wade, Lois, 1L ---- Lubbock  
 Wadsworth, Johnnie, 1L ---- Fabens  
 Waggoner, Woodrow, 2E ---- Ranger  
 Waghorne, Mrs. Ada H., G ---- Lubbock  
 Waghorne, Arthur C., 4E ---- Lubbock  
 Waghorne, Max, 3L ---- Lubbock  
 Wakefield, Clarence, 1A ---- Corpus Christi  
 Waldrup, Lorine, 1L ---- Post  
 Walker, Faye, 1L ---- Britton  
 Walker, Jake C., 1L ---- Carthage  
 Walker, John, 3L ---- Stidham, Okla.  
 Walker, Katie, 2L ---- Overton  
 Walker, L. D., 1L Farmington, N. Mex.  
 Walker, Merle, 1H ---- Britton  
 Walker, Robert J., 1L ---- Kerens  
 Walker, Tylen, 1L ---- Levelland  
 Wall, Newell R., 1L ---- Abilene  
 Walling, Elwyn, 2L ---- Big Spring  
 Walraven, Ferrell, 1L ---- Kingsville  
 Walraven, Lester Lee, 1L ---- Waco  
 Walter, John Arnold, 2L ---- Lubbock  
 Walton, Mackewn, 2L Portales, N. Mex.  
 Ward, Winnelle, 2H ---- Lubbock  
 Warden, M. M., 2L ---- Fort Worth  
 Wardlaw, Louise, 1L ---- Ballinger  
 Warren, George W., 1L Pomona, Calif.  
 Warren, Mary E., 4L ---- Cleburne  
 Waters, Hayes H., 1L ---- McLean  
 Watkins, Donley E., 1L Clayton, N. M.  
 Watkins, Eugene, 3E ---- Santa Anna  
 Watkins, Harold, 1L ---- Wellington  
 Watkins, Ira, 4L ---- Meadow  
 Watkins, Lois, 1L ---- Meadow  
 Watkins, Orville, 1L ---- Meadow  
 Watson, Chancy, 1E ---- Grand Saline  
 Watson, Edward, 1E ---- Grand Saline  
 Watson, Henry Bernice, 1L Bridgetown  
 Watson, Jonnye, 2H ---- Hermleigh  
 Watson, Lois, 1L ---- Lubbock  
 Watson, Lula Ted, 4L ---- Lubbock  
 Watson, Melba, 3L ---- Lubbock  
 Watson, Ross, 2E ---- Mineral Wells  
 Watson, Tom V., G ---- Lubbock  
 Watson, Tracy G., 2L ---- Mart  
 Watson, Wendell, 1L ---- Lubbock  
 Watters, Key, 1L ---- Jacksonville  
 Watts, Ed, 1L ---- Midland  
 Watts, Ray, 3E ---- Lubbock  
 Watts, Wayne, 1E ---- Breckenridge  
 Wayland, Bob, 4E ---- Plainview  
 Weathers, Fredice, 2L ---- Big Spring  
 Weaver, Erma Joy, 1L ---- Slaton  
 Weddle, Chas. L., 1A ---- Bonham  
 Weddle, W. N., 3A ---- Bonham  
 Wedeking, Ruby, 1L ---- Stamford  
 Weems, Luke, 1L ---- Fluvanna  
 Weilenman, Donald, 4E ---- Amarillo  
 Weimhold, Forrest H., 1L ---- Sudan  
 Weimhold, Frances, 2H ---- Sudan  
 Weiss, Edwin D., 3E ---- Plainview  
 Welch, Billy Joe, 1L ---- Floydada  
 Welch, Charles, 1E ---- Marshall  
 Welch, Harold, 1L ---- Lubbock  
 Welch, J. W., 1L Lovington, N. Mex.  
 Welch, Jack, 1A ---- Foard City  
 Welch, Leon, 2L ---- Tempe, Ariz.  
 Wells, J. D., 2E ---- San Antonio  
 West, J. W., 1L ---- Memphis

West, Milton Emerson, 3L ----- Abilene  
 Wester, Houston, 1E ----- Plainview  
 Wester, Newton, 1L ----- Las Vegas, N. M.  
 Wester, Virginia, 2A ----- Las Vegas, N. M.  
 Westmoreland, Georgia, 1L ----- Matador  
 Wharton, Ina Belle, 2H ----- Littlefield  
 Wharton, Leona H., 4H ----- Lubbock  
 Whatley, Effie, 1L ----- Meadow  
 Wheeler, Lucile, 1L ----- Lubbock  
 Wheeler, Marvin, 1L ----- Lubbock  
 Wheeler, Wilburn, 4L ----- Lubbock  
 Wherry, Gerald, 3E ----- Sunray  
 Whitaker, Naomi, 2L ----- Littlefield  
 White, Forrest A., 1L ----- Cleburne  
 White, Gus F., 2L ----- Borger  
 White, Ima, 1L ----- Post  
 White, W. T., G ----- Lubbock  
 Whitley, Johnnie Jo, 2L ----- Lubbock  
 Wicker, Geraldine, 1L ----- Slaton  
 Wicker, Murrel, 1L ----- Slaton  
 Wiggins, A. M., 4E ----- Lubbock  
 Wilbanks, Mary, 4H ----- Spearman  
 Wilder, Wm., 3E ----- Pampa  
 Wiley, J. Jefferson, 1L ----- Lubbock  
 Wilhite, Genelle, 4L ----- Lubbock  
 Willie, Charles, 4E ----- Tyler  
 Wilkerson, Jennie Faye, 2L ----- Idalou  
 Wilkins, Neal, 4L ----- Lubbock  
 Wilkins, Paul E., 1A ----- Floyd, N. Mex.  
 Wilkins, Wayne, 1L ----- Lubbock  
 Wilks, Pauline, 1H ----- Lubbock  
 Williams, Arvil, 1L ----- Jayton  
 Williams, Authola, 2L ----- Brownwood  
 Williams, Bert, 1L ----- Lubbock  
 Williams, Bonnie Jean, 1L ----- Lamesa  
 Williams, Charles Wofford, 1E ----- Stanton  
 Williams, Chester H., 4L ----- Clarendon  
 Williams, Commie, 2L ----- Lubbock  
 Williams, Curtis, 4A ----- Lubbock  
 Williams, Elvis, 2L ----- Lubbock  
 Williams, Everett, 1L ----- Roby  
 Williams, Fred, 2E ----- Sheffield  
 Williams, Helen, 1L ----- Rule  
 Williams, Hugh, 4L ----- Comanche  
 Williams, J. Dean, 1A ----- Mount Pleasant  
 Williams, Lucile Rose, 1L ----- Crosbyton  
 Williams, Mae, G ----- Flomot  
 Williams, Nancy Marie, 1L ----- Lubbock  
 Williams, O. O., 3L ----- Montague  
 Williams, Vernon, 1L ----- Wolf City  
 Williamson, J. C., 4L ----- Lubbock  
 Williamson, Ruby Rae, 2H ----- Spur  
 Willingham, Roberta, 4L ----- Lubbock  
 Willman, Kathleen, 2H ----- Muleshoe  
 Wills, Hood, 2A ----- Fluvanna  
 Wills, Olive, 1L ----- Fluvanna  
 Wilson, Earl S., 2L ----- Jacksboro  
 Wilson, J. Alton, 2L ----- Knox City  
 Wilson, J. B., 2E ----- Lubbock  
 Wilson, Jack, 1E ----- Clarksville

Wilson, James R., 2L ----- Paris, Tenn.  
 Wilson, Mary Doak, 3L ----- Lubbock  
 Wilson, Mildred, 3L ----- Pleasant Hill, Mo.  
 Wilson, Raymond V., 2L ----- Byers  
 Wilson, Sylva, G ----- Lubbock  
 Wilson, Theodore, 1L ----- Tulsa, Okla.  
 Wilson, Wm. Woodrow, 1A -----  
 ----- Lake Arthur, N. Mex.  
 Wilson, Woodrow, 1L ----- Louisville, Miss.  
 Wiman, Talmage, 1A ----- Roscoe  
 Wimberly, Russell E., 1L ----- Lubbock  
 Winn, H. R., 2E ----- Commerce  
 Winn, Jewel W., 1H ----- Levelland  
 Winston, Mac., 1L ----- Fort Worth  
 Wischkaemper, Erolene, 1L ----- Shamrock  
 Withers, Mrs. Gertrude, 1L ----- Sweetwater  
 Wolf, John N., 1E ----- Electra  
 Wolfe, Cecil L., 1L ----- Spur  
 Wolffarth, Donal E., 1E ----- Lubbock  
 Wolffarth, Dorothy, 1L ----- Lubbock  
 Womack, Jesse, 2L ----- Dillas  
 Wood, Helen, 1L ----- Idalou  
 Wood, Murray, 1L ----- Colorado  
 Wood, Virginia Dare, 2L ----- Childress  
 Woodall, Rollins, 1E ----- Iowa Park  
 Woodburn, Arthur, 4L ----- Portales, N. M.  
 Woods, Archie, 1E ----- Childress  
 Woods, Clarence, 4L ----- Lubbock  
 Woodward, Anthony, 1L ----- Shallowater  
 Woodward, Horace E., 2L ----- Shallowater  
 Woody, Geneva, 2L ----- Crosbyton  
 Woody, Kathleen, 1L ----- Crosbyton  
 Woodyard, Jack, 1E ----- Lubbock  
 Worley, William, 3E ----- Waxahachie  
 Wright, Clarence, 1A ----- Sanger  
 Wright, Harold M., 1L ----- Kress  
 Wright, Jack A., 3E ----- Silverton  
 Wright, Opal O., 1L ----- Lubbock  
 Wulfman, Beth, 2L ----- Lubbock  
 Wulfman, John S., 4E ----- Lubbock  
 Wyatt, Ralph, 2L ----- Levelland  
 Wylie, Painter C., 4A ----- Valley View  
 Yarbrough, Roma Ruth, 2L ----- Cisco  
 Yeager, Pauline, 1H ----- Lubbock  
 York, Lee F., 2L ----- Snyder  
 Yost, Mary Belle, 1H ----- Munday  
 Young, Clarence, 3A ----- Ralls  
 Young, Jesse, 3A ----- Cotulla  
 Young, Julia F., 1L ----- Lubbock  
 Young, Leslie, 2L ----- Lubbock  
 Young, Sammy, 1L ----- Borger  
 Young, Thomas, 2E ----- Lubbock  
 Zarafonitis, George A., 3L ----- Hillshoro  
 Zickefoose, Quan, 1L ----- Kress  
 Zimmerman, Louis, 2E ----- Cleburne  
 Zirkle, William, 2A ----- Perryton  
 Zorns, Bruce, 3E ----- Meadow  
 Zorns, Tom, 2L ----- Meadow

## 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 attended the college and for the further purpose of developing the material resources of the State to their highest point of value and usefulness by teaching the arts of commerce and manufacturing. All male students attending this

college shall be required to receive such instruction in military science and tactics as the board of directors may prescribe which shall, at all times, comply in full with the requirements of the United States Government now given as a prerequisite to any aid now extended or hereafter to be extended by the Government of the United States to State institutions of this character and all such white male students shall, during their attendance at such college, be subject to such military discipline and control as the board of directors may prescribe.

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

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

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

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

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

1. Twenty-five hundred (\$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 hereof:

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

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

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

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

## ERRATA

Page 131—Sophomore year. Add:

Arts and Sciences elective \_\_\_\_\_ 3 3:

Page 132—Senior Year, **Foods elective.** Change to read:

Foods elective \_\_\_\_\_ 2 —

Page 132—Senior Year, **Elective.** Change to read:

Education elective \_\_\_\_\_ 3:

Page 145—Freshman Year, first semester. Total, 18.

Sophomore Year, first semester. Total, 16.

Phil. 231x changed to read 233x. (This error occurs in only a part of the issues of this catalogue.)

Page 218—Chem. 131x-2x should read \_\_\_\_\_ 3 3:

## INDEX

Absences .....	42, 43, 50
Academic Costume Required .....	52
Adding Subjects .....	43
Administration .....	29
Administrative Council of College .....	19, 29, 52
Administrative Officers .....	7
Administrative Option, Mechanical Engineering .....	102, 119, 120
Admission—See Entrance .....	37 to 41, 240
Advanced Standing .....	19, 41
Advisers, Faculty .....	19
Agriculture, Division of .....	70
Admission Requirements .....	37, 72
Curricula .....	74 to 78
Degrees .....	73
Equipment .....	70, 82, 85, 88
Experience Required .....	73
Field for Graduates .....	71
Graduation Requirements .....	72, 73
Teachers Certificates .....	71
Trips and Judging Teams .....	72
Uniform Freshman and Sophomore Years .....	72
Agricultural Departments:	
Agricultural Economics and Farm Management .....	74, 79
Agronomy—See Plant Industry .....	88
Animal Husbandry .....	75, 82
Dairy Manufactures .....	76, 85
Horticulture—See Plant Industry .....	88
Plant Industry .....	77, 78, 88
Agricultural Economics and Farm Management, Department of ..	74, 79
Agronomy .....	77, 91
Alumni Association .....	34
Animal Husbandry, Department of .....	75, 82
Anthropology .....	198, 202
Appendix .....	277
Application for Degree .....	51
Applied Arts, Department of .....	135
Architecture and Allied Arts, Department of .....	96, 97, 98, 106
Art, Commercial .....	93
Artist Course .....	68
Arts and Sciences, Division of .....	143
Admission Requirements .....	37, 143
Courses Leading to Study of Law .....	146
Courses Leading to Study of Medicine .....	146, 148
Degrees .....	143
Bachelor of Arts .....	144, 162, 211
Bachelor of Business Administration .....	156
Bachelor of Science, Botany Major .....	151
Bachelor of Science, Zoology Major .....	152

Bachelor of Science, Chemistry Major .....	153
Bachelor of Science, Geology Major .....	154
Bachelor of Science, Physics Major .....	155
Bachelor of Science, Uniform Freshman Year .....	150
Bachelor of Science in Education .....	157, 158
Graduation Requirements .....	144
Arts and Sciences Departments:	
Biology .....	159
Chemistry and Chemical Engineering .....	153, 162
Economics and Business Administration .....	156, 167
Education and Psychology .....	157, 158, 172
English .....	179
Foreign Languages .....	187
Geology and Geological Engineering .....	154, 191, 192
Government .....	195
History and Anthropology .....	198
Mathematics .....	202
Military Science and Tactics .....	209
Music .....	210, 211
Philosophy and Sociology .....	216
Physical Education .....	217
Physics .....	155, 220
Speech .....	223
Association of American Colleges .....	34
Association of Colleges and Secondary Schools of the Southern States .....	34
Association of Texas Colleges .....	34
Association, National University Extension .....	35
Athletics .....	33
Athletic Conference .....	34
Attendance, 1925-1933 .....	243, 244
Bacteriology .....	159
Band .....	67
Biblical History and Literature, Courses in .....	67, 226
Biology, Department of .....	159
Board of Directors .....	6, 29
Board and Room .....	59
Bookstore, College .....	33, 59
Border Athletic Conference .....	34
Botany .....	151, 160
Buildings and Grounds .....	25
Business Administration and Economics .....	156, 167
Business Administration, Degree Bachelor of .....	156
Business Administration, Secretarial Courses .....	169
Calendar .....	3, 4
Catalogue .....	35
Change of Schedule .....	43, 44, 51, 54
Change of Sections .....	44
Chemistry and Chemical Engineering, Department of .....	110, 153, 162
Chemistry Option, Textile Engineering .....	103, 124
Choral Club .....	67
Civil Engineering, Department of .....	99, 111
Classification of Students .....	45



Clothing and Textiles, Department of .....	130, 136
Clubs and Societies .....	68
Clubs, Departmental and Scientific .....	69
Co-Education .....	34
Commercial Art .....	98, 106
Committees of the Board .....	6
Committees, Faculty .....	19
Conditions, Admission with .....	39, 40
Cooperative House for Women Students .....	60
Correspondence Courses .....	232, 234
Course Numbers and Value of .....	48, 49
Dairy Manufactures, Department of .....	76, 35
Date of Opening of 1933-34 Session .....	3
Dead Week—See Social Activities, Restricted Week of .....	51
Debate and Oratory .....	68
Degrees, Bachelors':	
Application for .....	51
Agriculture .....	73
Arts and Sciences .....	143, 144, 147, 149, 150, 156, 157, 162, 163
Engineering .....	93
Home Economics .....	129
Degrees, Masters' .....	230
Degrees, Professional Engineering .....	230
Degrees Conferred, 1925-1932 .....	244
Degrees Conferred, 1931-1932 .....	246
Departments of Instruction .....	30
Deposits .....	57
Diplomas .....	52
Discipline .....	42
Double Cuts .....	43
Drawing .....	106, 117
Dropping Subjects .....	43
Economics and Business Administration, Department of .....	156, 167
Education, Bachelor of Science Degree in .....	157, 158
Education and Psychology, Department of .....	172
Educational Associations, Membership in .....	34
Electrical Engineering, Department of .....	100, 114
Employees, College .....	17
Employment, Student .....	64
Engineering Drawing and Graphics, Department of .....	117
Engineering, Division of .....	93
Admission Requirements .....	37, 95
Curricula .....	95 to 105, 164, 192
Degrees .....	93, 163, 194, 191, 192
Field for Graduates .....	94
Graduation Requirements .....	95
Orientation .....	95, 114
Regulations .....	95
Scholarship Probation .....	49
Transcripts .....	95
Uniform Freshman Year .....	99

## Engineering Departments:

Architecture and Allied Arts .....	96, 97, 98, 106
Chemistry and Chemical Engineering .....	110, 153, 162
Civil Engineering .....	99, 111
Electrical Engineering .....	100, 114
Engineering Drawing and Graphics .....	117
Geology and Geological Engineering .....	118, 191
Mechanical Engineering .....	101, 102, 119
Textile Engineering .....	103, 104, 105, 124
Engineering Option, Textiles .....	104
English, Deficiencies in .....	48
English, Department of .....	179
Enrollment, 1932-1933 .....	243
Enrollment, 1925-1933 .....	244
Entrance .....	37 to 41
Advanced Standing .....	41
Conditions .....	38, 40
Correspondence Courses .....	240
Examinations .....	38, 39
Graduate Study .....	228
Requirements .....	37
Errata .....	280
Examinations, Admission by .....	33
Expenses .....	57, 59
Extension, Department of .....	17, 35, 232
Courses Offered .....	234, 240

Fabric Design Option, Textiles .....	105, 124
--------------------------------------	----------

Faculty .....	8
---------------	---

Faculty Committees .....	19
--------------------------	----

Farm, College .....	23
---------------------	----

Farm Management, Agricultural Economics and .....	79
---	----

## Fees:

Deposits .....	57
Exemption from .....	58
Medical Service .....	57, 58, 60
Out-of-State Students .....	57, 58
Registration .....	57
Return of .....	57, 58
Special Courses .....	57, 58, 59
Student Activities .....	57, 58

Foods and Nutrition, Department of .....	131, 138
--	----------

Foreign Languages, Department of .....	137
--	-----

Foreword .....	20
----------------	----

Fraternities, Social .....	35
----------------------------	----

French .....	189
--------------	-----

General Agriculture .....	92
---------------------------	----

General Home Economics .....	133
------------------------------	-----

General Information .....	24
---------------------------	----

Geography .....	191, 195
-----------------	----------

Geology and Geological Engineering, Department of .....	118, 191
---	----------

German .....	189
--------------	-----

Glee Club .....	67
-----------------	----

Government, Department of .....	135
Government, Courses Required .....	174, 195
Grade Points .....	48
Grades .....	45, 51
Graduate Study .....	228
Courses .....	230
Degrees .....	230
Professional Degrees .....	230
Graduation Requirements .....	48, 51, 52, 72, 95, 129, 144
Graphics .....	117
Group Study Courses by Correspondence .....	232, 241
Group Study Courses for Clubs .....	241
Hazing .....	50
High School Certificates, Admission by .....	37, 38
History, Act Establishing Texas Technological College .....	227
History, College .....	24, 25
History and Anthropology, Department of .....	198
Home Demonstration Major .....	134
Home Economics, Division of .....	127
Curricula .....	130 to 134
Degrees .....	129
Equipment .....	127
Field for Graduates .....	128
Graduation Requirements .....	129
Major Lines of Work .....	129
Teachers Certificates .....	128
Vocational Certificates .....	128
Home Economics Departments:	
Applied Arts .....	135
Clothing and Textiles .....	130, 136
Foods and Nutrition .....	131, 138
Home Economics Education .....	132, 140
Home Management .....	141
Home Economics Education, Department of .....	132, 140
Home Management, Department of .....	141
Home Management House .....	127, 141
Honors .....	62, 245
Horticulture .....	78, 89
Housing:	
Inspection and Approval .....	52
Regulations .....	52
Regulations for Students .....	52 to 56
Regulations for Women .....	54
Index .....	230
Individual Approval, Admission by .....	39
Industrial Engineering .....	123
Information, General .....	24
Instructors in Special Departments .....	16
Intramural Transfers .....	51
Journalism .....	135

Late Enrollment .....	3, 4, 42, 43, 57
Latin .....	190
La Ventana .....	66
Law .....	197
Law, Studies Preparatory to .....	146
Library .....	17, 31
Library Committee .....	32
Library Fee and Deposit .....	57
Loan Funds .....	62
Location .....	24
Low Grades .....	41, 45, 46, 47, 49 95
Lubbock Sanitarium .....	60
Map of Campus .....	2
Mathematics, Department of .....	202
Mathematics, Transition Courses in .....	207
Mature Students, Admission of .....	39
Mechanical Engineering, Department of .....	101, 102, 119
Mechanical Engineering, Administrative Option .....	102, 119
Medical Service for Students .....	57, 58, 60
Medicine, Studies Preparatory to .....	146, 148
Men Students, Regulations for .....	53
Military Science and Tactics, Department of .....	209
Museum .....	33
Music, Department of .....	210
Musical Organizations .....	67
Night Classes .....	241
Nutrition, Foods and .....	131, 138
Officers of Administration .....	7
Officers of Instruction .....	8
Oratory and Debate .....	68
Orchestra .....	67
Organization of College .....	28, 30
Administrative Division .....	30
Agriculture .....	30
Arts and Sciences .....	31
Engineering .....	30
Extension .....	31
Home Economics .....	30
Plant Operation .....	31
Orientation .....	3, 92, 95, 114, 129, 140, 215
Painting .....	106
Philosophy and Sociology, Department of .....	216
Physical Education, Department of .....	33, 217
Physical Education for Men .....	22, 217
Physical Education for Women .....	33, 218
Physical Education for Women, Pre-Professional Work .....	218
Physical Education Required .....	33, 48, 217, 218
Physics, Department of .....	155, 220
Plains Museum Society .....	33
Poultry Husbandry .....	84

Pre-Law Curriculum .....	147
Pre-Medical Curriculum .....	148
Probation .....	49
Psychology .....	172, 174, 173
Public Speaking—See Speech .....	223
Publications, Official .....	35
Publications, Student .....	66
Register of Students .....	252
Regulations for Students .....	42 to 56
Regulations, Housing .....	52 to 56
Religious Education .....	226
Religious Organizations .....	66, 67
Requirements for Graduation .....	48, 51, 52, 72, 95, 129, 144
Residence Requirements .....	51
Resident Work .....	229
Rooming House Regulations .....	52
Scholarships and Prizes .....	61
Scholarship Probation .....	49
Self-Help .....	64
Semester Hours:	
Maximum Number .....	49
Method of Numbering Subjects .....	49
Value of .....	48
Shop—See Mechanical Engineering .....	119
Sick, Care of .....	60
Social Activities, Restricted Week of .....	51
Sociology .....	216
Spanish .....	188
Special Departments, Instructors in .....	16
Special Regulations for Women .....	55, 56
Speech, Department of .....	223
State Teachers Certificates, Admission by .....	39
Statistical Summary .....	243, 244
Student Activities .....	57, 58, 66
Student Aid .....	62, 64
Student Checks Unpaid .....	50
Student Clubs and Societies .....	68
Student Council .....	66
Student Directory .....	66
Student Employment .....	64
Student Organizations .....	66
Student Publications .....	66
Student Regulations .....	42 to 56
Students, Classification of .....	45
Students, Register of .....	252
Subjects Accepted for Admission .....	37, 33
Summer Session .....	242
Suspension from College .....	50, 51
Teachers Certificates .....	39, 71, 128, 172, 173, 174

## Texas Technological College:

History .....	25, 277
Location .....	24, 277
Text Books and Supplies .....	59
Textile Engineering, Department of .....	103, 104, 105, 124
Textiles:	
Chemical Option .....	103, 124
Engineering Option .....	104, 124
Fabric Design Option .....	105, 107, 124
Textiles, Clothing and .....	130, 136
Toreador .....	66
Transcripts .....	38, 41, 95
Transfers from Other Institutions .....	41
Transfers, Intramural .....	51
Tuition .....	57, 58, 59
Veterinary Science .....	85
Vocational Home Economics Teacher Training .....	128, 132, 140
Withdrawal from College .....	50
Women Students, Cooperative House for .....	60
Women Students, Regulations for .....	54
Women Students, Special Privileges for Sophomores, Juniors, and Seniors .....	56
Women Students, Special Regulations for Freshmen .....	56
Women's Athletic Association .....	218
Young Men's Christian Association .....	66
Young Women's Christian Association .....	67
Zoology .....	152, 161