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TEXAS TECHNOLOGICAL
COLLEGE

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ANNOUNCEMENTS FOR 1929 - 1930

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PREFACE.

This bulletin is issued as the fourth annual catalogue of the Texas Technological College. It gives a somewhat detailed outline of the courses offered to students by the College.

It is a pleasure to announce that in December, 1928, the Texas Technological College was admitted to membership in the Association of Colleges and Secondary Schools of the Southern States. This was done after careful inspection of the College by the officials of the Association. The application for membership had been made a year earlier, and, under the rules of the organization, had been required to lie upon the table for a full year, pending investigation and study of all points connected with the college organization.

The Texas Technological College was already a member of the Association of Texas Colleges.

During the past year the College has received a bequest from the estate of Mr. George T. Morrow of Lubbock. Twenty thousand dollars was given, to be used as a loan fund for worthy students in the College. This fund is to be administered by College officials, and will be available as soon as the estate is settled. This is the first bequest the College has received, and it is hoped that the example will be followed by many of its friends. The College is deeply appreciative of the benevolence of Mr. Morrow.

During the current college year, the institution has completed the erection of two new buildings. One of these, the first unit of the main Engineering Building, has been in use since the first of October, 1928. The other one, the Chemistry Building, has been accepted and in use since January 1, 1929. For the time being it will house the work in Chemistry, Physics, Biology and Geology. Ultimately, however, it is intended for the use of Chemistry alone.

That there was a genuine demand for a school of the type of the Texas Technological College is shown by the fact that it enrolled 1,043 students during the first year of its existence, and three years later, during its fourth year, has more than doubled that number.

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COLLEGE CALENDAR

1929

March 18, Monday. Registration for Spring term.
March 19, Tuesday. Recitations begin 8 a. m.
April 21, Sunday. San Jacinto Day.
April 24, Wednesday. Mid-term report due in Registrar's office.
May 26, Sunday. Commencement Sunday.
May 27, Monday. Commencement Day.
May 27-31, Monday-Friday. Spring term examinations.
June 1, Saturday. Spring term reports due in Registrar's office.
June 3, Monday. Summer School begins.
August 23, Friday. Summer School closes.

FIFTH ANNUAL SESSION

1929

September 16-19, Monday-Thursday. Entrance examinations.
September 20-22, Friday-Sunday. Freshman orientation.
September 23-25, Monday-Wednesday. Registration.
September 26, Thursday. Fall term classes begin at 8 a. m.
September 27, Friday. "Open House" for all students by the churches of Lubbock.
September 28, Saturday. Reception of President and Mrs. Horn to the student body at 8 p. m., Administration Building.
September 29, Sunday. Annual sermon.
October 2, Wednesday. President's annual address.
October 5, Saturday. Last day to register for full work.
October 22, Tuesday. Last day to register for work in Fall term.
November 11, Monday. Armistice Day, a holiday.
November 12, Tuesday. Mid-term reports due in Registrar's office.
November 28, Thursday. Thanksgiving Day, a holiday.
December 16-20, Monday-Friday. Fall term examinations.

December 21, Saturday. Christmas recess begins.

December 21, Saturday. Fall term grades due in Registrar's office.

1930

January 2, Thursday. Registration for Winter term.

January 3, Friday. Recitations begin 8 a. m.

January 9, Thursday. Last day of Winter term registration for full work.

February 8, Saturday. Mid-term reports due in Registrar's office.

February 22, Saturday. Washington's birthday, a holiday.

March 2, Sunday. Texas Independence Day.

March 10-14, Monday-Friday. Winter term examinations.

March 15, Saturday. Winter term closes.

March 17, Monday. Winter term reports due in Registrar's office.

March 17, Monday. Registration for Spring term.

March 18, Tuesday. Recitations begin 8 a. m.

April 21, Monday. San Jacinto Day.

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

May 25, Sunday. Commencement Sunday.

May 26, Monday. Commencement Day.

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

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

June 2, Monday. Summer School begins.

August 22, Friday. Summer School closes.

BOARD OF DIRECTORS

OFFICERS OF THE BOARD

CLIFFORD B. JONES, Chairman Spur
R. A. UNDERWOOD, Vice-Chairman Plainview
H. T. KIMBRO, Treasurer Lubbock
E. W. PROVENCE, Secretary Lubbock

MEMBERS OF THE BOARD

Term Expires 1929

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

Term Expires 1931

CLIFFORD B. JONES Spur
H. T. KIMBRO Lubbock
HOUSTON HARTE San Angelo

Term Expires 1933

R. A. UNDERWOOD Plainview
E. O. THOMPSON Amarillo
C. G. COMEGYS McKinney

COMMITTEES OF THE BOARD

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HOUSTON HARTE FRANK E. CLARITY

LEGISLATIVE COMMITTEE

E. O. THOMPSON, *Chairman*

C. G. COMEGYS HOUSTON HARTE H. T. KIMBRO

OFFICERS OF ADMINISTRATION

PAUL W. HORN, M. A., LL. D., *President*.
Office, 213 Administration Building.

JAMES M. GORDON, M. A., LL. D., *Dean of the School of Liberal Arts*.
Office, 211 Administration Building.

ARTHUR H. LEIDIGH, M. S., *Dean of the School of Agriculture*.
Office, 102 Agriculture Building.

WILLIAM J. MILLER, S. M. IN E. E., *Dean of the School of Engineering*.
Office, 202 Engineering Building.

MARGARET W. WEEKS, M. S., *Dean of the School of Home Economics*.
Office, 101 Home Economics Building.

MARY W. DOAK, B. A., *Dean of Women*.
Office, 102 Administration Building.

ERNEST W. PROVENCE, B. A., *Secretary and Business Manager*.
Office, 105 Administration Building.

EBEN L. DOHONEY, B. LITT., *Registrar and Assistant Dean*.
Office, 106 Administration Building.

OFFICERS OF INSTRUCTION

PAUL WHITFIELD HORN, *President*.
M. A., Central College; LL. D., 1917.

WILLIAM HENRY ABBITT, *Professor of Physics*.
B. A., Virginia, 1919; Ph. D., Chicago, 1926.

THOR J. BECK, *Professor of French and German; Head of Department*.
B. A., Soree College; M. A., LL. B.; LL. M., Copenhagen.

EDMOND WEYMAN CAMP, *Professor of Textile Engineering; Head of Department*.
B. S. in T. E., Georgia School of Technology, 1901.

ALLAN L. CARTER, *Professor of English; Head of Department*.
B. A., Clark, 1911; M. A., Northwestern, 1913; Ph. D., Pennsylvania, 1919.

BENJAMIN F. CONDRAY, *Professor of Economics and Business Administration; Head of Department*.
B. A., Ouachita, 1921; M. A., Chicago, 1923.

WILLIAM MOORE CRAIG, *Professor of Chemistry*.
B. A., Southwestern, 1906; M. A., 1907; M. A., Texas, 1916; Ph. D., Harvard, 1927.

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

CHARLES DUDLEY EAVES, *Professor of History*.
B. A., Texas, 1916; M. A., Chicago, 1922.

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

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

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

B. S., Purdue, 1913; M. A., Columbia, 1923.

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

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

GUS L. FORD, *Professor of History.*

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

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

B. A., Vanderbilt, 1912.

RAYMOND ERNEST GARLAND, *Professor of Education.*

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

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

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

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

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

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

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

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

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

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

B. S. in Arch., Minnesota, 1920; M. S. in Arch., Harvard, 1922; Diploma d'Architecture, Fontaine Bleu, 1925.

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

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

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

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

SETH SHEPARD MCKAY, *Professor of History.*

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

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

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

CLARENCE SIMPSON MAST, *Professor of Physics.*

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

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

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

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

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

RUFUS ARTHUR MILLS, *Professor of English.*

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

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

S. B. in C. E., Massachusetts Institute of Technology, 1916.

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

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

ANNAH JO PENDLETON, *Professor of Public Speaking.*

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

RUTH PIRTLE, *Professor of Public Speaking; Head of Department.*

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

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

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

WILLIAM L. RAY, *Professor of Chemistry.*

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

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

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

GEORGE SMALLWOOD, *Professor of English.*

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

FRED WENCHELL SPARKS, *Professor of Mathematics.*

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

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

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

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

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

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

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

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

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

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

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

ASSOCIATE PROFESSORS

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

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

*LALLA ROOKH BOONE, *Associate Professor of History.*

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

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

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

WARREN PERRY CLEMENT, *Associate Professor of Education.*

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

MARIE DELLENEY, *Associate Professor of Applied Arts; Head of Department.*

B. A., College of Industrial Arts; M. A., Columbia, 1927.

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

M. A., Texas, 1926.

RUPERT WINTHROP FOWLER, *Associate Professor of English.*

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

WILLIAM BRYAN GATES, *Associate Professor of English.*

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

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

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

HARRY HILL, *Associate Professor of Physics.*

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

MILTON FREDERIC LANDWER, *Associate Professor of Biology.*

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

BESSIE BEAKLEY LEAGUE, *Associate Professor of Biology.*

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

DOROTHY MCFARLANE, *Associate Professor of Foods.*

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

FLORA POWELL MCGEE, *Associate Professor of English.*

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

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

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

ERNEST NELSON, *Associate Professor of Textile Engineering.*

Lowell Textile Institute, 1911.

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

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

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

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

EDWARD LOOMAN REED, *Associate Professor of Botany.*

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

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

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

*Leave of Absence in 1928-1929.

WILBER IRVING ROBINSON, *Associate Professor of Geology.*

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

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

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

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

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

CLARENCE CARL SCHMIDT, *Associate Professor of Physics.*

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

*ADELIN WHITE SCOTT, *Associate Professor of Education.*

B. S., Peabody, 1918; M. A., Columbia, 1921.

JAMES THOMAS SHAVER, *Associate Professor of Education.*

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

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

B. S. in Architecture, Texas, 1921.

MERRILL ADDISON STAINBROOK, *Associate Professor of Geology.*

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

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

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

**MAYME TWYFORD, *Associate Professor of Foods.*

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

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

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

FRANCES WHATLEY, *Associate Professor of Spanish.*

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

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

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

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

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

OTHER OFFICERS OF INSTRUCTION

JAMES G. ALLEN, *Instructor in English.*

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

**GRACE BAKER, *Instructor in Clothing and Textiles.*

B. S., West Virginia, 1921; M. A., Iowa State College, 1928.

FRANCIS EDWIN BALLARD, *Instructor in Government.*

M. A., Vanderbilt, 1926.

ALBERT T. BISHOP, *Assistant Professor of Mathematics.*

Graduate, West Point, 1905; M. A., Virginia, 1926.

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

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

*Leave of Absence in 1928-29.

**Winter and Spring terms, 1928-29.

MRS. EDNA WALKER BUSTER, *Instructor in Clothing and Textiles.*

B. S., College of Industrial Arts, 1924.

HORACE BAILEY CARROLL, *Instructor in History.*

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

LLOYD C. CHRISTIANSON, *Instructor in Mathematics.*

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

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

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

EUNICE COX, *Instructor in Public Speaking.*

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

MRS. WILLIAM DINGUS, *Graduate Assistant in Latin.*

B. A., Texas, 1910.

MARSHALL E. FARRIS, *Assistant Professor of Mechanical Engineering.*

B. S., in M. E., Purdue, 1922; M. S. in M. E., Texas, 1926.

CHARLES C. GALBRAITH, *Teaching Assistant in Chemistry.*

B. S., Trinity, 1928.

EUNICE J. GATES, *Instructor in Spanish.*

B. A., Southwestern, 1921; M. A., 1924; M. A., Michigan, 1927.

*JOHNNYE GILKERSON, *Assistant Professor of Physical Education for Women.*

B. A., Texas, 1924.

LUCILLE AVO POWELL GILL, *Instructor in English.*

B. A., Texas, 1922; M. A., 1925.

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

B. S., Iowa State College, 1927; D. V. M., 1927.

JOHN COYNE HARDGRAVE, *Instructor in Engineering Shopwork.*

KATHERINE HARPER, *Director of the Cafeteria and Assistant Professor of Foods.*

B. S., College of Industrial Arts, 1918; M. A., Columbia, 1926.

MAURICE EARL HEARD, *Instructor in Textile Engineering.*

Georgia Tech.

ELLIS RICHARD HEINEMAN, *Instructor in Mathematics.*

B. A., Wisconsin; M. A., 1926.

WILLIAM FRANK HELWIG, *Assistant Professor of Electrical Engineering.*

B. S. in E. E. Minnesota, 1923; M. S., Texas, 1928.

GRAILY HEWITT HIGGINBOTHAM, *Assistant Professor of Physical Training; Coach of Football and Baseball.*

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

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

CAPTAIN RHODES INGERTON, *Assistant Professor of Physical Training; Coach of Freshman Football and Basketball.*

*Leave of Absence in 1928-29.

VIVIAN JOHNSON, *Instructor in Foods and Home Economics Education.*

B. S., Southwest Texas State Teachers' College, 1924; M. A., Columbia, 1927.

LIEUTENANT HUGH EDWARD KILLIN, *Instructor in Military Science.*

KENNETH LESLIE KNICKERBOCKER, *Instructor in English.*

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

LONNIE LANGSTON, *Instructor in Mathematics.*

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

HARRY LEMAIRE, *Instructor in Music; Bandmaster.*

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

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

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

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

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

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

B. S. in C. E., Texas, 1925.

EMILIE MADONNE, *Assistant Professor of French.*

B. A., Ouachita, 1923; M. A., Baylor, 1926.

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

B. A., Texas, 1909.

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

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

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

B. A., Simmons University.

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

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

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

B. A., Central College, 1925.

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

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

JOSEPH S. ROSEN, *Instructor in Mathematics.*

B. S. in C. E., Washington University, 1925; M. S., 1926.

JESSIE Q. SEALEY, *Instructor in Biology.*

M. A., Texas, 1928.

RAYMOND GILBERT SIDWELL, *Assistant Professor of Geology.*

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

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

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

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

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

*Leave of Absence in 1928-29.

ALFRED BELL STREHLI, *Assistant Professor of Spanish.*
B. A., Ohio State, 1924; M. A., 1926.

ALAN LANG STROUT, *Assistant Professor of English.*
M. A., Chicago, 1920; M. A., Wisconsin, 1925; Ph. D., Yale, 1928.

MRS. RUTH STUDHALTER, *Instructor in Biology.*
B. A., Missouri, 1911; M. A., Washington University, 1917.

GUSSIE LEE TEAGUE, *Instructor in English.*
B. A., Oklahoma, 1923; M. A., Colorado, 1926.

EARL L. THOMPSON, *Assistant Professor of Mathematics.*
B. A., Kansas State Teachers College, 1908; M. A., Kansas, 1914; Ph. D., Chicago, 1928.

INSTRUCTORS IN SPECIAL DEPARTMENTS

EUNICE COX, *Expression.*
B. S., Texas Woman's College, 1922; Chicago; Curry School of Expression; Columbia.

MRS. ENOCH FRANKLIN GEORGE, *Piano.*
B. M., Cincinnati.

MARGARET JOHNSON HUFF, *Piano.*
B. Mus., American Conservatory.

MRS. DOROTHY McDONALD KNICKERBOCKER, *Instructor in Violin.*
Brenau Conservatory, 1926; Pupil of Eithel Allen Nelson, and E. B. Michaelis.

HARRY LEMAIRE, *Band.*

MRS. VIOLET GRAYUM MCKNIGHT, *Voice.*
B. M., Baylor, Pupil of Herbert Witherspoon, Chicago Musical College; E. Warren K. Howe, American Conservatory; Fred Eggert; Maude Baird.

MRS. M. A. SCOGGIN, *Voice.*
Graduate of College of Music, Ottawa University.

DEPARTMENT OF EXTENSION

JULIUS F. McDONALD, *Director.*
B. A., Baylor, 1897; B. A., Yale, 1898; M. A., Chicago, 1910.

LIBRARY STAFF

ELIZABETH HOWARD WEST, *Librarian.*
B. A., Texas; M. A., 1901; Texas Library Training Class, 1905-6.

EMMA LILLIAN MAIN, *Assistant Librarian.*
B. A., North Texas State Teachers College, 1924; Texas Library School, 1925-26

*MADELIN FRANCES CANOVA, *Reference Librarian.*
B. A., Texas, 1927; Texas Library School, 1924.

RUTH BUDD, *Reference Librarian.*

OTHER EMPLOYEES

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

ROY W. MCCULLOUGH, *Y. M. C. A. Secretary.*
B. A. Cornell (Iowa), 1917; B. D., Yale University, 1924.

*Leave of Absence in 1928-29.

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

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

ASSISTANTS IN VARIOUS DEPARTMENTS

PEARL HARRISON, *Secretary to President.*

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

EVELYN KNIPP, B. S., *Secretary to Dean of Engineering.*

JUANITA POOL, *Secretary to Dean of Agriculture.*

MRS. W. HAROLD GORDON, *Secretary to Dean of Home Economics.*

MRS. JAMES HOOPER STILES, B. A., *Auditor.*

S. T. CUMMINGS, *Purchasing Agent.*

MRS. VAUGHN E. WILSON, B. A., M. A., *Secretary to Business Manager.*

OPHELIA STEELE ELLIS, *Cashier.*

FRANCES SMALL, *Secretary to Auditor.*

MARY JO COLE, *Secretary to Purchasing Agent.*

WILLIAM CONNER COLE, B. B. A., *Manager of Bookstore.*

MRS. HURLEY CARPENTER, *Postmistress.*

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

FRANCES RAY WILSON, *Student Activity Bookkeeper.*

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

SYLVA WILSON, *Secretary to Dean of Women.*

DON MADDOX, *Bookstore Clerk.*

ALFRED VAN DYKE, *Bookstore Clerk.*

H. C. HERVEY, *Secretary for Athletics.*

J. A. PIPKIN, *Engineer.*

J. H. BENNETT, *Assistant Engineer.*

JACK HIGHTOWER, *Night Watchman.*

T. A. MCQUARY, *Carpenter.*

JESS PIPKEN, *Plumber and Electrician.*

C. F. WELTY, *Groundman.*

C. A. BENTON, *Groundman.*

J. T. HUGHES, *Groundman.*

MRS. KNOX THOMAS, *Telephone Operator.*

VIRGINIA TINER, *Assistant Telephone Operator.*

SCOTT FIKES, *Assistant in Business Office.*

- VIRGINIA WEST, *Secretary to Librarian.*
ANNA BELLE COLLINS, *Library Assistant.*
ETHRIDGE EAGAN, *Library Assistant.*
RUE EUBANK, *Library Assistant.*
HORACE GRADY MOORE, *Library Assistant.*
LOLA MAE ROZELLE, *Library Assistant.*
VIVIAN WATKINS, *Library Assistant.*
EDNA YONGE, *Library Assistant.*
MARY HOPE WESTBROOK, *Secretary to Registrar.*
IRWIN COLEMAN, *Assistant in Registrar's Office.*
DAYLE WALLACE, *Assistant in Registrar's Office.*
MABEL COLEMAN, *Assistant in Registrar's Office.*
H. Y. PRICE, *Assistant in Registrar's Office.*
BESS BOVERIE, *Assistant in Registrar's Office.*
CLAUDE C. HOPE, *Assistant in Agriculture.*
GUY BLANTON, *Student Laborer in Dairy Products.*
THOMAS CHAPMAN, *Student Laborer in Dairy Products.*
R. A. ALEXANDER, *Student Laborer in Horticulture.*
R. L. BURDETTE, *Student Laborer in Agronomy.*
PAUL GRIFFITH, *Biology Assistant.*
LUCILLE HOUSTON, *Biology Assistant.*
HENRIE MAST, *Biology Assistant.*
INEZ MEDLOCK, *Biology Assistant.*
PAULINE MILLER, *Biology Assistant.*
EARL TURNER, *Biology Assistant.*
LOY CROSS, *Chemistry Assistant.*
PAUL LEFFORGE, *Chemistry Assistant.*
JEROME SANDERS, *Chemistry Assistant.*
ANDREW JENKINS, *Chemistry Assistant.*
GUY MARTIN, *Chemistry Assistant.*
WILSON DRAKE, *Chemistry Assistant.*
LOUIS LAHM, *Chemistry Assistant.*
LA THAGGER GREEN, *Chemistry Assistant.*
T. M. BINNION, *Chemistry Assistant.*
MRS. MARY DALE BUCKNER, *Secretary to Department of English.*
ZELDA RAY, *Geology Assistant.*

- J. T. GIST, *Geology Assistant.*
FRED MOORE, *Geology Assistant.*
LLOYD PYEATT, *Geology Assistant.*
VIRGINIA MARY ERWIN, *Foreign Language Assistant.*
W. E. STREET, *Engineering Drawing Assistant.*
J. E. SPEER, *Engineering Drawing Assistant.*
D. F. BANCOOKE, *Mechanician, Mechanical Engineering.*
FLOY ANGLIN, *Home Economics Assistant.*
NORA COCKE, *Home Economics Assistant.*
JUANITA COWART, *Home Economics Assistant.*
WILLIAM TUCKER, *Physics Assistant.*
HUGH HANCOCK, *Physics Assistant.*
SAM WOMACK, *Physics Assistant.*
JUNE HEWETT, *Physics Assistant.*
BILLY JONES, *Secretary to Liberal Arts Faculty.*
LYNN DOUGHERTY, *Physical Education Assistant.*
ROSS OWEN, *Physical Education Assistant.*
VAUGHN CORLEY, *Athletic Assistant.*
SIDNEY KNOWLES, *Athletic Assistant.*
DENNIS VINZANT, *Athletic Assistant.*
WILBURN EDDELMON, *Government Assistant.*
J. W. JACKSON, *Government Assistant.*
J. M. TEAGUE, *Government Assistant.*
MAMIE WOLFFARTH, *Business Administration Assistant.*
DOUGLAS SMYTHE, *Business Administration Assistant.*
ROSA MAE BUFORD, *Spanish Assistant.*
A. C. ROGERS, *Farm Laborer.*
C. W. COOK, *Farm Laborer.*
H. McMILLEN, *Herdsmen.*
J. H. HOUSTON, *Teamster.*
J. L. DENNIS, *Herdsmen.*
D. T. LINDLEY, *Janitor.*
W. C. PUCKETT, *Janitor.*
J. A. MARTIN, *Janitor.*
MRS. J. A. MARTIN, *Janitor.*
MRS. ELLA PERRY, *Janitor.*
MRS. J. M. GADDY, *Janitor.*
MRS. DORA DURHAM, *Janitor.*

FACULTY COMMITTEES

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

1. Daily schedule: Deans Gordon, Leidigh, Miller, Weeks.
2. Registration: Dohoney, Gates, Svensen.
3. Boarding houses: Mast, Ray, Horne.
4. Formal exercises: Abbitt, Waghorne, Carter.
5. Student help: Horne, Dohoney, Condray.
6. Entrance examinations: Clement, Hill, Eaves.
7. Extra-curricular activities: Granbery, West, Michie.
8. Social activities: Doak, Weeks, Ford.
9. Student publications: Mills, McGee, Horne.
10. Scholarship awards: Evans, Studhalter, Camp.
11. Religious life among students: Read, Eaves, Pirtle.
12. Publicity: Horne, Fowler, Gates.
13. General catalog: Deans Leidigh, Gordon, Miller, Weeks, Doak.
14. Course of study, Liberal Arts: Dean Gordon and Department heads.
15. Faculty advisers: Evans, George, McCrery.
16. Artists course: Waghorne, Robnett, Craig.
17. Summer school: Gordon, Evans, Granbery.
18. Degrees and advanced standing in Liberal Arts: Gordon, Jackson, Read.
19. Public speaking: Mills, West, Granbery.
20. Discipline (men): Gordon, Leidigh, Miller.
21. Discipline (women): Doak, Weeks, League.
22. Athletic Council: Stangel, Jackson, Dohoney, Freeland, Provence, Carroll.
23. Extension Work Committee: Gordon, Leidigh, Weeks, Jackson, Evans.

TEXAS TECHNOLOGICAL COLLEGE

On October 1, 1925, Texas Technological College opened its doors for the first time. Before the close of the fall term, 925 young men and women had been enrolled as students in the institution. Of this number 738 were entering college for the first time and 187 were transfers from other colleges. The men numbered 649 and the women 276. 217 Texas cities and towns were represented in the student body; from each of more than one hundred of these came one student only. Eight states besides Texas contributed to the enrollment. At the close of the session, there were 1,043 students enrolled.

At the close of the nine-months session of the second year, a total of 1,535 students had been enrolled. The enrollment for the summer session of 1927 was 677, of which number 357 had not been previously enrolled in the College, making a total net enrollment of 1,892 for the year 1926-27. Of this number 1,085 were men and 807 were women.

HISTORY

The Texas Technological College was established by act of the Thirty-eighth Legislature through an enactment set forth as follows:

SENATE BILL No. 103

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 materials 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 adaption of farm crops to the peculiar soil, climate and condition of that portion of the State in which the college is located, and such other courses and degrees as the board of directors may see fit to provide as a means of

supplying the educational facilities necessary for this section of the State, and it shall be the duty of the board of directors to furnish such assistance to the faculty and students of said college as will enable them to do original research work and to apply the latest and most approved method of manufacturing and, in general, to afford the facilities of the college for the purpose of originating, developing, supporting and maintaining all of those agencies (physical, mental and moral) for the development of the physical, mental and moral welfare of the students who attend the college and for the further purpose of developing the material resources of the State to their highest point of value and usefulness by teaching the arts of commerce and manufacturing. All male students attending this college shall be required to receive such instruction in military science and tactics as the board of directors may prescribe which shall, at all times, comply in full with the requirements of the United States Government now given as a prerequisite to any aid now extended or hereafter to be extended by the Government of the United States to State institutions of this character and all such white male students shall, during their attendance at such college, be subject to such military discipline and control as the board of directors may prescribe.

SEC. 4. The chairman of the State Board of Control and the State Superintendent of Public Instruction, the President of the University of Texas, the President of the College of Industrial Arts of Texas, and the President of the Agricultural and Mechanical College of Texas shall constitute a board charged with the responsibility for the location of the Texas Technological College, a majority of whom shall be authorized to act under the terms of this bill in the location of said school; said board being restricted in the choice of the 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 appropriately enter into the selection of the desirable location of an institution of this kind. It is further provided that the said locating board shall not be influenced to any degree in the determination of its selection of a location by offers and promises of bonuses and gifts, directly or indirectly, to the State of Texas, as a consideration for the location of said college at any particular place, but a primary consideration which shall outweigh all others in the minds of the members of the locating board, shall be to locate this college where it can, in the future, render the greatest service to the State and to the section of the United States for which it is especially intended; but this is not to be interpreted to mean that the board of directors shall not have authority to accept gifts of land, money for students' loans, permanent improvement or

any other objects of value when tendered for the purpose of more completely carrying out the purpose of this act; said gifts to be made after said school is located and established and if a suitable location for said college is offered by any city or community. The lands bought shall be so located that the administration building will be within convenient distance to the residence section of the town where located, or the place where the students reside.

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

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

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

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

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

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

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

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

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

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

GENERAL INFORMATION

LOCATION

The College is located at Lubbock, a rapidly growing town of approximately 20,000 inhabitants. The main line of the Santa Fe railroad from Houston to Los Angeles passes through Lubbock, and other lines of the same system run from Lubbock north to Amarillo, east to Crosbyton, southwest to Seagraves, and west to Bledsoe, making Lubbock "the Hub of the South Plains." The Fort Worth and Denver railroad has recently completed a line from Lubbock to Estelline, connecting there with the main line from Amarillo to Fort Worth and giving Lubbock direct connection with Fort Worth and Dallas. These railroads give Lubbock eleven trains a day. In addition, Lubbock has seven designated State highway outlets with twenty-one automobile passenger stages.

The elevation of Lubbock is 3,250 feet. The mean temperature for winter is 40 degrees, for summer 77.5 degrees, for the entire year 58.9 degrees.

Lubbock has a progressive school system with a scholastic enrollment of 5000 and 142 teachers. The high school has approximately 1300 students enrolled, with 47 teachers, and 43½ units

of affiliation with the State Department of Education. It is a member of the Secondary School Department of the Association of Colleges and Secondary Schools of the Southern States.

There are three modern brick hospitals with over 230 beds, capable physicians, and specialists.

The leading evangelical denominations have congregations in Lubbock, and nearly all have new church buildings.

BUILDINGS AND GROUNDS

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

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

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

"Flanking the Hall of Texas on either side will be the laboratories of science, chemistry and physics, connected in such a

manner as to form the court closing the western end of the great central court, or yard, of the College. This court will be raised at a level some few feet higher than the great central court.

"The Administration and Academic Building, the first and main facade of which has now been completed, forms the south side of the great court. This Academic and Administration Building is, when entirely completed, a building enclosing three sides of a smaller garden patio opening on the south to large lawns which form a long vista of the campus upon which there will be also on either side the following buildings:

Halls for Women.

Home of the President.

The Library of the College.

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

"Looking across the great court, or yard, from the Administration Building toward the north, one will see a long vista opening down the engineering quadrangle at the end of which there has been built the building of Textile Engineering. The entire western side of the quadrangle, measuring in length some 1100 feet, will be devoted to the gradual development of schools of engineering which will embrace engineering in all of its branches, both theoretical and experimental. The entire eastern side of the rectangle opposite the engineering building has been set aside for the housing of men, including the dining halls, gymnasiums and drill grounds. The large second court to the west of the academic lawn is the court for the agricultural college upon which two of the smaller permanent buildings have already been erected. This court will develop with buildings for agronomy, animal husbandry, experimental service, etc.

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

"In its architecture, 'Texas Tech.' is carrying on the traditions of the early architectural history of this State. That tradition is recorded in the old Spanish missions. This style of Spain, which was the background of the missions of Texas, was one of the most impressive and inspiring of Europe. The architecture of Spain in the middle of the sixteenth century, as one sees it in

such examples as Leon, Alcala de Henares, Salamanca and Toledo, carries the simple splendor of the wall far more robust and at the same time in more artful work than is characteristic of the other countries of Western Europe in their periods of Renaissance. It was this style that was brought into Texas by the early missions and whose silhouette and mass is beautifully reflected in its missions. The workmanship and skill of the style was beyond the skill of the period of mission building. The great tablelands of West Texas upon which the buildings of the new college are being built have likeness in color and character to the tablelands of Central Spain, and this group of college buildings, as it gradually develops into its different courts, can carry the early traditions, fittingly tying-in, in the bond of tradition, the old history and the new, the past, the present and the hope of the future."—(*From the Architects*).

BUILDINGS COMPLETED AT PRESENT

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

- Administration Building, first unit.
- Textile Engineering Building, first unit.
- Home Economics Building, first unit.
- President's Home.
- Cafeteria.
- Stock Judging Pavilion.
- Dairy Barn.
- Poultry Houses.
- Heating Plant.
- Mechanical Engineering Shop.
- Gymnasium.
- A small class-room building for Agriculture.
- Greenhouse, first unit.
- Home Management House.
- Engineering Building, first unit.
- Chemistry Building.

ADMINISTRATION BUILDING

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

TEXTILE ENGINEERING BUILDING

The first unit of the Textile Building was completed at the opening of the College; it is approximately sixty-five by two

hundred and twenty feet, and is two stories in height. The value of the building and its equipment of modern textile machinery is about a quarter of a million dollars.

HOME ECONOMICS BUILDING

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

HOME MANAGEMENT HOUSE

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

ENGINEERING BUILDING

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

CHEMISTRY BUILDING

The Chemistry Building is 240 feet long and 60 feet wide with one wing extending back 100 feet. There are two stories, a full basement and at the east end, a low tower. Although designed primarily as a Chemistry Building, it houses for the present the Departments of Biology, Geology, Physics, and Chemistry.

ORGANIZATION

The College is at present organized into four distinct but closely co-operating schools, as follows: The School of Liberal Arts, the School of Agriculture, the School of Engineering, and the School of Home Economics. Each of these schools has its own dean, its course of study, its requirements for entrance and for graduation. A specific degree is given for graduation; for the School of Liberal Arts, the degree is B. A.; for the other

schools it is B. S., with an indication of the special subject in which the degree is taken.

The four schools with their various departments are as follows:

The School of Liberal Arts

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

The School of Engineering

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

The School of Agriculture

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

The School of Home Economics

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

COEDUCATION

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 and each group has proved an inspiration to the other.

DEMOCRACY OF SPIRIT

The College believes to be sure that college life is actually living in the present. On the other hand, it believes just as firmly that present college life should prepare definitely for responsibilities in life after college days are over. Furthermore, in a great democracy like our own it stands to reason that democracy

of spirit among our student body makes possible the best preparation for a democratic citizenship.

Consequently, class distinction is frowned upon, hazing and secret societies, especially Greek letter fraternities, are forbidden, and every student is encouraged to make a place for himself of real worth to himself and to his community.

OFFICIAL PUBLICATIONS

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

THE LIBRARY

The Library has acquired by gift and by purchase approximately 40,000 books, maps, manuscripts and pamphlets, of which about 19,000 have been catalogued.

This material comprises general and special encyclopedias, both English and foreign, general literature, English and foreign texts, treatises on subjects taught in the College; back numbers of periodicals and series, both general and technical, mostly unbound, and the nucleus of a fair working collection of State and Federal documents.

On the periodical racks are about three hundred general and special magazines and ten newspapers, acquired partly by gift, partly by purchase. The Wilson indexes are a valuable part of the periodical stock, as is also the New York Times Index.

The well-known formula of library effectiveness, "5 per cent building, 20 per cent books, 75 per cent service," is an important part of the life philosophy of the Library.

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

THE COLLEGE BOOKSTORE

The College Bookstore, located in a frame and stucco building on the campus, is owned and operated by the College. The Bookstore carries in stock all required text books, books for extension courses, all supplies and equipment needed in any of the specialized courses, and an assortment of stationery, athletic supplies, toilet articles, pennants, etc. Branches of the Bookstore are operated in the corridor of the Administration Building and in the Engineering Building. At the end of the Spring term the Bookstore buys back from the students all books which are to be used in the College the following year. The price of the book depends on its condition and edition.

THE CAFETERIA

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

MUSICAL ORGANIZATIONS

The College has a glee club for women, meeting Mondays and Wednesdays each week at 4 p. m. A similar organization for men meets on Tuesdays and Thursdays. These clubs occasionally merge their forces for productions of operettas and Christmas carol programs. The College Band meets Monday and Thursday evenings. The College Orchestra meets on Wednesday evenings.

ARTISTS COURSE

A series of recitals, lectures and dramatic productions is sponsored by the College, students in the institution being admitted free on presentation of their identification cards. The attractions for the 1928-29 season are: William Allen White, noted author, lecturer and newspaper man; Count Tolstoy, son of the famous Russian philosopher novelist. The Coffey-Miller players presenting "She Stoops to Conquer" and "A Marriage for Convenience"; a harp-vocal recital by Alberto Salvi and Edna Swanson Ver Haar; and a program by Mme. Cyrene van Gordon, prima donna of the Chicago Grand Opera. An organ recital is also given each term.

INTERCOLLEGIATE ATHLETICS

Life is a cooperative enterprise; so is intercollegiate athletics. Athletics, therefore, becomes a most important laboratory for college students. The College fosters various branches of intercollegiate athletics, and has provided a coaching staff, grounds, gymnasium and equipment for football, basketball, baseball, track and tennis. All intercollegiate athletics are rigidly supervised by the Athletic Council of the College, and all such contests are played under the rules of the Southwest Athletic Conference.

ENTRANCE

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

GENERAL ADMISSION REQUIREMENTS

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

TRANSCRIPT OF HIGH SCHOOL CREDITS

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

TRANSCRIPT OF COLLEGE CREDITS

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

ADMISSION BY HIGH SCHOOL CERTIFICATE

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

For the School of Liberal Arts see page 51.

For the School of Engineering see page 123.

For the School of Agriculture see page 159.

For the School of Home Economics see page 189.

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

SUBJECTS ACCEPTED FOR ADMISSION

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

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

ADMISSION BY EXAMINATION

Applicants who have not been graduated from fully accredited high schools may enter the freshman class after passing entrance examination. In the spring each year entrance examinations are held throughout the State under the supervision of the State Department of Education. The examinations held in May are conducted in each county, and the papers are graded by the State Department at Austin. Subjects successfully passed and certified to by the State Department or by the Department of Extension of the Texas Technological College will be accepted for entrance, provided they are subjects that meet our requirements.

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

*Vocational subjects.

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

SCHEDULE OF ENTRANCE EXAMINATIONS
FALL TERM, 1929-30

Monday, September 16

Forenoon		Afternoon	
8:00-10:00	10:00-12:00	1:00-3:00	3:00-5:00
English I and II	Economics	Algebra I	Algebra II
Biology	Botany	Eng. History	Sociology
	Am. History	Old Testament	New Testament

Tuesday, September 17

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

Wednesday, September 18

Forenoon		Afternoon	
8:00-10:00	10:00-12:00	1:00-3:00	3:00-5:00
Plane Geom'try	Ancient History	French	Domestic Art
Solid Geom'try	Modern History	Spanish	Domestic Science
Trigonometry	Latin	Pub. Speaking	Agriculture

Thursday, September 19

Forenoon		Afternoon
8:00-10:00	10:00-12:00	1:00-3:00
Advanced Arith.	Physics	Civics
General Science	Chemistry	Bookkeeping
		Physiography

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

Entrance examinations for the summer term of 1929 will be given May 26-30, using the same schedule as that given above for the fall term examinations.

ADMISSION BY STATE TEACHERS' CERTIFICATE

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

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

ADMISSION BY INDIVIDUAL APPROVAL

At the discretion of the dean of the particular school, mature students (twenty-one years of age or over) may be admitted to College classes without having met the formal entrance requirements. Such admission does not confer special privileges, but, on the contrary, puts the applicant under special obligations. Each applicant proceeds as follows:

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

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

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

Applicants are advised to send their applications and credentials in advance of their coming to Lubbock.

Admission by individual approval contemplates applicants who have not recently attended school and therefore could not pass the admission examinations.

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

Students admitted by individual approval cannot become candidates for degrees until they have satisfied the admission requirements. As to how to remove admission conditions, see the following section.

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

ADMISSION WITH CONDITIONS

To enroll in the College a student must offer by examination or certificate fifteen high school units or their equivalent. Included in the fifteen must be three units of English and one each

in plane geometry and algebra if the student enters without conditions. However, if he is able to present fifteen accredited units which do not include mathematics, he may be admitted to the freshman class, provided the conditions are all removed by examination or otherwise before he can be enrolled in any sophomore courses in the College. These conditions may be removed by work taken under the Department of Extension. The first course in any of the foreign language courses (131-2-3) may be used to absolve the two entrance units in this language, but of course it cannot at the same time earn college credit.

ADMISSION TO ADVANCED STANDING

Students transferring from other colleges will be given credit for only courses that have been passed with a grade which is one letter above the passing grade in the institution from which the student comes; and then only when such courses or their equivalent are given for credit in Texas Technological College. Furthermore, any transfer who expects to be graduated from Texas Technological College must meet the regular requirements for graduation and must complete a minimum of forty-five term hours in this institution.

REGULATIONS

ABSENCE FROM CLASSES

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.

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

Absences with athletic teams, debating teams, or other organizations which leave the College on official work, and absences of individuals who are permitted by the President or the deans to leave the College on official business pertaining to the College, or some organization thereof, are counted at half rate, provided the coach, manager, or other person in charge files with the Registrar, before leaving the College, a certificate upon a form prescribed by the College, for each student who proposes to make the trip.

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.

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

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

Applications for the privilege of making up absences must be made in writing to the Registrar and approved by the dean of the respective school within one week from the time of return to the College.

ADDING SUBJECTS

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

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

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

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

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

DROPPING SUBJECTS

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

CHANGE OF SECTION OF SUBJECTS

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

GRADES

The standing of a student in his work is expressed by grades made up from class work and from examinations. The grades

used are: A, excellent; B, good; C, fair; D, passing; E, condition; Inc., incomplete; W, withdrawal from the course; F, failure. A plus grade and a minus grade may be used at the instructor's discretion to make finer distinctions above and below the letter given. Thus, if "A" is 90 to 100, "A-" is low and "A+" is high within that range; likewise, "D-" is barely passing.

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

The Grade of "E"

A student who fails to pass in a course but makes a grade of "E" is conditioned. If this grade is not removed within one year it has the same value as an "F". The grade "E" is to be very carefully distinguished from "Inc." In all cases of future assignments, prerequisites, or activities requiring a pass, it is considered as an "F" until removed, except for entrance to the succeeding term of a continuous course of not over three terms.

The student may remove a condition in one of three ways:

1. By a second examination with the approval of the head of the department and with the understanding that before the condition is removed the student shall be required to do additional work. The examination must be passed with a grade of at least "C", and if it is passed with a grade of "C" or better the term grade then becomes "D". A student who fails to pass a condition examination forfeits thereby the right to ask for another examination in that course and must take that term's work over to secure credit for it.

2. By good work the following term in a course continuing beyond one term, the instructor, at the end of the following term, may, if in his opinion the circumstances warrant, with the approval of the head of the department, raise an "E" of an earlier term to "D".

3. By special work approved by the instructor and by the head of the department. The term grade, if thus raised, then becomes a "D".

In any action under provisions 1, 2 and 3 for the removal of "E", the instructor will transmit the grade of "D" or "F" to the Registrar through the head of the department and the dean. The Registrar in recording the new grade will leave the "E" on the record. When an "E" stands with no action for one year, it is an "F".

The Grade of "Inc."

A student who is compelled to delay beyond the end of the term the completion of the work of the term on account of sick-

ness or other causes beyond his control should, in person or through a friend, petition the dean—beforehand if at all possible—for permission to delay the completion of the work. The petition may be initiated by the instructor if he so desires. If this permission be granted, the work may be finished within one year and credit for it given at the discretion of the instructor. The dean will not approve the petition where the reason given is that the student is carrying more than a normal load of either collegiate or outside work on his schedule.

On the completion of work previously reported incomplete, the instructor will transmit the grade through the head of the department and the dean to the Registrar. The Registrar in recording the new grade will supplement the "Inc." with the new grade. When an incomplete stands with no action for one year it is an "F".

The Grade of "W"

The grade of "W" is given on honorable dismissal from the college during a term or on withdrawal from a subject. ~~provided~~ provided under the grade of "F".

The Grade of "F"

In addition to ~~the~~ given for failure in class work and examination, a grade of "F" is given when a student withdraws from a subject, unless the dean in approving the withdrawal recommends that the grade be "W".

SCHOLARSHIP PROBATION

A student who fails to pass approximately 9 hours or 3 subjects for which he is enrolled in a given term shall be placed on scholarship probation by the dean of his school during the next term. This probation shall mean that:

(a) The student may not register for more than ~~four~~ courses, approximately 12 hours.

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

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

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

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

TERM HOUR

The unit of calculating credit in the College is the "term hour." One hour a week of class work for a term of 12 weeks is counted as one "term hour." Three hours of laboratory work, where no outside preparation is necessary, are equivalent to one class hour.

Each class hour presupposes two hours of preparation on the part of the student, and instructors are expected to make their assignments accordingly.

COURSE NUMBERS

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

GRADE POINT REQUIREMENTS FOR GRADUATION

To secure any degree in this College a student must receive as many grade points as he is required to make term hours. For grade A, three grade points are awarded for each term hour; for Grade B, two points; for grade C, one point; for grade D, no points.

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

DEFICIENCIES IN ENGLISH

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

PHYSICAL TRAINING

The physical development of the student is quite as important as his mental development. The most important objective of education is to fit the individual for life. Physical training, therefore, is required of all freshmen and sophomores, both men and women, unless excused upon recommendation of the College physician.

WITHDRAWAL FROM COLLEGE

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

SUSPENSION FROM COLLEGE

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

HOUSING REGULATIONS FOR MEN

The College has a standing committee on housing arrangements for students. This committee attempts to furnish a list of approved boarding and rooming places for men and women.

In order to be placed on this list, the proprietor must be a person of good moral character, and must be willing to co-operate with the College in carrying out its regulations. The house must be used for rooming men or women exclusively, unless such a house is given over entirely to married couples. A house should be screened, should have sewerage connections, have hot water available in the bathrooms, and have adequate heating facilities for bedrooms. There should be a parlor available in each girls' house. Failure on the part of the householder to provide the accommodations specified should be reported to the housing committee.

Students not residing with their parents while attending the College, are expected to conduct themselves in a proper and reasonable manner in their rooming houses, maintaining at all times

conditions suitable for quiet study. They are not allowed to room or board at any house not approved by the faculty for that purpose.

A student who engages room, or room with board, may not change his place of residence unless by request of the proprietor, or unless given permission to move by the dean to whom he is responsible.

A student who is sent to the hospital shall continue to pay his room rent in full to the end of the month, and shall pay board in full for the first three days.

The proprietor of a rooming or boarding house on the approved list is requested to report any cases of misconduct of such a nature as to interfere with the general good order of the house.

If a student finds it necessary to change his place of residence in Lubbock he must come to Mr. Cecil Horne at the information office and make his request known, filling out a blank which is kept for that purpose. Permission to move will not be withheld from any student where there is good reason for moving. On the other hand, students changing their addresses without permission will subject themselves to serious discipline at the hands of the College authorities.

The price of board and room ranges from \$27.50 to \$36.00 a month.

REGULATIONS FOR WOMEN

General Regulations

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

2. Women students going on out-of-town trips as of Section 1 are at all times under the direction of the chaperones sent by the College and are subject, whether they are resident or non-resident students, to the same disciplinary regulations.

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

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

Special Academic Regulations

1. Regulations in the School of Liberal Arts.

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

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

2. Regulations in the School of Home Economics:

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

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

Regulations Applying to Women Students Not Residing With Their Parents

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

2. A Student who engages room or room with board may not change her place of residence during the term except upon the recommendation of the Dean of Women.

3. A student who is sent to the hospital shall continue to pay her room rent in full for the month and shall pay board in full for the first three days, and after that shall pay one-half price on her board.

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

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

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

7. Quiet hours shall be maintained every night after 7:30 during the long session and after 8:30 during the summer session except Friday and Saturday nights, holidays, and nights preceding holidays. This rule applies to private homes as well as dormitories.

8. All women students residing in rooming houses and dormitories must sign up with the housemother before going out in the evening.

9. Women students may attend only two social affairs during the week. They are expected to be in their homes by 12:30 on

dance nights and by twelve on the nights of other formal parties.

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

11. Women students are required to be in the dormitory and boarding houses at 9:30 p. m. on Sunday.

12. Women students may attend only those dances that are approved by the College.

13. All engagements are subject to the approval of the housemother.

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

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

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

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

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

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

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

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

Special Privileges for Seniors and Juniors

Special privileges will be accorded Junior and Senior students who have met special requirements. Written notification will be given the housemothers when such privileges are granted.

Orientation Required for Freshman Girls

A lecture course which is a study of the social and economical aspects of college life.

EXPENSES

The Texas Technological College, being a State institution, has no tuition fees. The enrollment and other incidental fees are very moderate, and are payable in advance. The following are charged each term:

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

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

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

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

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

Fees for Special Courses

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

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

Laboratory Fees and Deposits

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

Late Enrollment and Change of Schedule Fee

A student who enrolls after the final date set for registration will be charged a late enrollment fee of \$2.00. A student who changes his schedule after his registration is completed will be charged a fee of \$1.00.

All fees are payable at the beginning of each term and must be paid before the student's class card is sent to the instructor.

MEDICAL SERVICE FOR STUDENTS

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

a. 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.

b. Each student will be allowed free consultation with the school physician at any time that such consultation is desired.

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

d. Each student will, in case of necessity, have free use of the hospital facilities of the Lubbock Sanitarium, including board, lodging and general nursing in the hospital, provided this need 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.

e. If an ambulance is required to carry the student to the hospital, this will be furnished without additional charge.

f. The student will receive without further cost any pathological or X-ray examination which may be needed.

g. 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.

h. 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.

i. On all operative work not covered by the medical fee, students will receive a discount of 25 per cent from the regular charge.

j. 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 c above.

k. Daily services of a trained nurse can be had at the office on the campus during the school year at hours to be announced.

Members of the faculty of Texas Technological College and their families may receive medical and surgical attention at a discount of 25 per cent.

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.

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

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.

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

SCHOLARSHIPS AND PRIZES

Wyatt C. Hedrick Scholarship of \$250.00 for the highest scholastic standing awarded to James Alldredge of Lubbock.

Scholarship for highest excellence in oratory, amounting to \$250.00, awarded to Hal Lary of Clovis, New Mexico.

John W. Carpenter Scholarship of \$250.00 for the student with highest excellence in Textile Engineering awarded to Cary H. Lodal of Gordon.

Clifford B. Jones Scholarship of \$250.00 for student with highest excellence of work in Agriculture awarded to Ronald C. Tom of Stanton.

Fort Worth Star-Telegram Scholarship of \$250.00 for best all-round athlete awarded to Howard DeWitt of Fort Worth.

Faculty Scholarship of \$125.00 for some worthy young man or woman awarded to Floy Anglin of Tahoka.

Scholarship of \$100.00 for the best excellence in English awarded to Jewel G. Bond of Lubbock.

Scholarship for highest excellence in English among men, amounting to \$100.00, awarded to Alva Dayle Wallace of Mt. Calm.

The E. O. Thompson Scholarship of \$250.00 to the most worthy young woman in the Junior Class awarded to Lila Allred of Chillicothe.

The E. O. Thompson Scholarship of \$250.00 to the most worthy young man in the Junior Class awarded to June Hewett of Plainview.

The Pan-Hellenic Society of Lubbock awards annually a cash prize to the Freshman student in the School of Home Economics who makes the highest average in all her college work. The prize was awarded in 1927-28 to Roxanna Ruth Ford of Lubbock.

Scholarship of \$100.00 for the best college citizen among the women awarded to Nell Goodloe of Lamesa.

Scholarship of \$100.00 for the best college citizen among the men awarded to William R. Sewell of Slaton.

Unabridged dictionary awarded by the Southern Scholarship Society to the freshman making the highest average awarded to Mary Louise McNeill of Lubbock.

THE GEORGE T. MORROW LOAN FUND

The late George T. Morrow, for many years a citizen of Lubbock, provided in his will for the establishment of a loan fund of \$20,000.00 for worthy young men and young women of the Texas Technological College. The fund is to be administered by a committee composed of the President of the College, the Business Manager, and the Registrar. It is hoped that the fund will be available beginning with the school year 1929-30.

STUDENT EMPLOYMENT

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

The Student Employment Bureau extends every possible aid and guidance to the worthy student, but does not assume responsibility for the success of his efforts. It is not wise for anyone to come to Texas Technological College with the expectation of earning all expenses unless a position has been secured in advance. A good many earn all or a major portion of their expenses, but this is often at a sacrifice of health or creditable class room work. 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 Lubbock Rotary Loan Fund and by loans from certain other organizations and from individuals who believe that this kind of investment is worth while. Reference to student scholarships and prizes mentioned on the preceding page is suggested.

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

For Young Women.

Office work	Laboratory assistant.
House work	Library assistant
Telephone operator	Stenographer
Teaching piano	College cafeteria
Clerking	Care of Children
Dining room service	Beauty Parlor Operator

For Young Men.

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

STUDENT ACTIVITIES

RELIGIOUS ORGANIZATIONS

Young Men's Christian Association.

The association was established in 1925 as a voluntary student organization. The rapid growth of the college made it impossible for students to handle the many calls for service. During the summer of 1927 several friends of the college organized a Board of Management and called a full time Executive Secretary. In the spring of 1928 a constitution in keeping with the National Council of the Young Men's Christian Association was written by students, and during the summer affiliation was accomplished. This gives a student member an introduction to any association

anywhere in the world. It means fellowship of the best sort for a young man away from home. Occasional meetings and conferences are held for all the students of the College. Counsel on religious, moral and other problems is available through friendly contact on the initiative of either the student or secretary. The association gives opportunity to study the Bible in non-credit courses. Classes in Boys' Leadership are also organized each term. Particular attention is given to freshmen or any other person needing assistance. Correspondence from parents, guardians or friends will be appreciated by the Executive Secretary of the Y. M. C. A.

The Young Women's Christian Association

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

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

Other Religious Work.

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

STUDENT PUBLICATIONS

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

CLUBS AND SOCIETIES

Woman's Athletic Association.—The purpose of the W. A. A. is to promote interest in gymnastic and athletic activities among

the women of the College as a means of advancing physical efficiency, scholarship, good fellowship, and good health. The sports offered by the W. A. A. are baseball, basketball, tennis, hiking, volley ball, and swimming. All athletic awards for women will be made by the W. A. A. The awards will be given on the basis of a point system. It is necessary for a woman to make the team in some sport before she may receive an award.

The Sock and Buskin Club.—The Sock and Buskin Club is open to men and women interested in dramatic performances. The purpose of the organization is to provide opportunity for good drama, wholesome amusement, and intelligent recreation. Abundant opportunity will be given for the study of directing, staging, acting, and writing plays. Each week a one-act play is given. Each member of the organization is given the opportunity of taking part in some play during the year.

The Spanish Club.—The purpose of the club is to stimulate interest in the study of Spanish by electing to membership students who excel in the Spanish classes. The programs of the semi-monthly meetings are of a social and literary nature.

The Press Club.—The Press Club was organized to promote interest in creative writing, chiefly in the various aspects of journalism, and to foster interest in publications of any kind that may be sponsored by the student body. It also seeks, by its programs and other activities, to make richer the social life of its members and the students generally.

The Agricultural Club.—The aim of the Agricultural Club is the fostering and promoting of interest among its members in all matters pertaining to Agriculture and agricultural education in the College. The organization endeavors to encourage cooperation among the members and to promote social events, athletic contests, and agricultural programs, as well as to provide financial assistance to agricultural students in cases of extreme necessity. The Club has acted as a sponsor for the College judging teams. Meetings are held on the first and third Wednesday evenings of each month.

The Pre-Medic Club.—The permedical students have organized a club for the purpose of increasing their knowledge of the profession of medicine and of affording opportunities to get in touch with local members of the medical profession.

The Home Economics Club.—The Home Economics Club has as its aims the furthering of interest in problems of the home and the extension of home economics education in the community. All persons interested in these subjects are eligible for membership. A loan fund has been established for Home Economics students in the College. The Club holds meetings on the first and third Friday evenings of each month.

The Social Science Club.—There is a local chapter of the national honor social science society called Pi Gamma Mu, Greek letters beginning words that signify students of social science. Membership is open to seniors and second and third term juniors who are able to meet certain requirements. The purpose is to promote interest in social science.

The Sociological Society.—This is a group of mature students of sociology who meet informally from time to time to discuss social problems.

The Engineering Society.—This organization has for its objects: (a) The fostering of a spirit of unity, co-operation and friendliness among all students of the School of Engineering, and (b) provision of a means for promoting any enterprise for the welfare of its members. Any student in good standing registered in the School of Engineering is eligible to membership and may become a member of the society by payment of the annual dues of \$1.00. The organization has adopted a blue shirt and a gold-colored necktie as its official regalia, which is worn on specified days and occasions. The activities include social events, athletic contests, a loan fund, and representation of the School of Engineering in any all-college affairs.

ORATORY AND DEBATE

It is coming to be recognized more and more that the ability to speak effectively is an extremely valuable asset, and the man of affairs who wishes to influence and persuade cannot achieve the fullest measure of success without this ability. The courses offered in oratory and debate include those from simplest speeches to formal address. The classroom is a laboratory where much practical work is done. Both informal and formal debates will be studied. Intercollegiate debates have been arranged with some of the best colleges in the State.

A \$250 scholarship is offered to the best student in oratory. In order to win this scholarship a student must enter five events in contest. These events are: declamation, extempore speaking, after dinner speaking, debate, and oratory. The winner of the highest honors is awarded the scholarship.

Those interested in debate have an opportunity for practice in the Debating Club.

SCHOOL OF LIBERAL ARTS

JAMES M. GORDON, DEAN

AIM

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

REQUIREMENTS FOR GRADUATION

Entrance Requirements.

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

A list of the subjects and units accepted for admission will be found on page 31.

College Courses Required

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

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

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

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

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

Courses for Freshman Year

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

1. English.
2. Any three of the following:
Foreign language
Mathematics
Science
Social science.
3. A fifth subject in 2 or elective.
4. Orientation 110. Required of all freshman girls.

Courses For Sophomore Year.

1. Any of the required courses not already completed.
2. Courses in the degree group which the student may elect.
The following degree groups are suggested:

English
Foreign language
Mathematics
Science
Social science.

Courses for Junior and Senior Years

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

Transfers From Other Colleges

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

COURSES LEADING TO LAW, MEDICINE OR BUSINESS
ADMINISTRATION

Although Texas Technological College does not have a school of law or of medicine, it offers college courses preparatory to admission to regular schools of law and of medicine. Business administration courses are given in the School of Liberal Arts of this College.

Studies Preparatory to Law

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

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

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

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

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

Bachelor of Arts Degree for Pre-Law Students

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

The three years' work in the Texas Technological College must be of such a nature that it will satisfy all graduation requirements with the exception of the major subject.

Studies Preparatory to Medicine

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

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

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

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

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

Bachelor of Arts Degree for Pre-Medical Students

The Pre-Medical students may obtain the degree of Bachelor of Arts from Texas Technological College by three years of work in Liberal Arts and two years in a Class A medical college upon satisfying the following conditions:

1. A minimum of two years of resident work in Texas Technological College, including the junior year.
2. Satisfactory completion of the prescribed and elective courses listed in the Pre-Medical curriculum for the freshman, sophomore, and junior years.
3. Submission from a Class A medical college of properly approved credentials to the effect that he has completed satisfactorily the first two years of work leading to the degree of Doctor of Medicine.
4. Two years of physical training or military science.
5. The grade point requirement. (See page 38)

REQUIREMENTS FOR THE BACHELOR OF ARTS IN BUSINESS
ADMINISTRATION

<i>Freshman Year</i>	Term Hours
English 131-2-3	9
Government 131-2-3	9
A Natural Science	
Mathematics 137-8-9	9
Foreign Language	9
Physical Training	9
<i>Sophomore Year</i>	
English 231-2-3	9
Economics 231-2-3	9
Introduction to Accounting 234-5-6	9
Foreign Language	9
American Economic History	9
Physical Training	
<i>Junior and Senior Years</i>	
Economics 334-5	6
Mathematics 237-8-9	9
Psychology or Philosophy	3

Economics 334-5 are required courses, but cannot be credited on a major in Economics and Business Administration to complete the major requirements of 45 hours. Twenty-seven hours

*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.

besides Economics 334-5 must be taken from the divisions of Marketing, Production, Finance or Accounting. The remaining 45 hours for graduation may be approved electives.

THE MASTER OF ARTS DEGREE

During the College year of 1927-28, plans were perfected whereby the Master of Arts degree will be given in the School of Liberal Arts to students meeting the requirements for that degree. At the present time, work leading to this degree is offered in the following departments, namely:

Economics and Business Administration.

Education and Psychology.

English.

Geology.

Government.

History.

Mathematics.

Philosophy and Sociology.

The requirements for the degree are as follows:

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

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

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

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

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

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

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

Foreign Language: A reading knowledge of at least one foreign language is required. Any student who presents two full college courses of 18 term hours of a foreign language will be presumed to have a reading knowledge of that language. A student unable to offer such college courses will be required to furnish a certificate from the head of the department of the language offered, stating that he has a reading knowledge of such foreign language. When a student is pursuing research that requires the use of statistical method as a tool for such research, he may upon approval of the Dean and the Graduate Committee, be allowed to substitute 9 hours of advanced work in statistics for the foreign language requirement.

DEPARTMENT OF BIOLOGY

Professor Studhalter, Associate Professors Reed, Landwer, League.

Instructors *McKay, Studhalter, Sealey

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

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

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

I. BOTANY

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

Botany and its subdivisions; a microscopic survey of the seed plants; the cellular structure and physiology of plants; and a

*Absent on leave in 1928-29.

review of the plant groups from the algae to the flowering plants.

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

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

Prerequisite: Botany 131-2-3.

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

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

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

Prerequisite: Botany 131-2-3.

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

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

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

Prerequisite: Botany 131-2-3.

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

Fee: \$1.00; deposit: \$5.00.

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

Prerequisite: Botany 131-2-3.

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

Fee: \$1.50; deposit: \$4.00.

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

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

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

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

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

Prerequisite or parallel: Botany 331-2-3.

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

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

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

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

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

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

The remainder of the required 45 hours may be taken in the major subject. The candidate may elect to offer a minor of 9 hours of graduate work in each of two subjects, or 18 hours in

II. ZOOLOGY.

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

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

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

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

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

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

231-2-3. *Invertebrate Zoology*. 2 lecture hours, 3 laboratory hours.

Prerequisite: 9 term hours in zoology.

A study of the more important invertebrates.

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

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

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

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

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

236. *Economic Entomology*. 2 class hours, 3 laboratory or field hours.

Prerequisite: Zoology 235 or Zoology 131-2-3.

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

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

237-8-9. *Vertebrate Anatomy*. 2 lecture hours, 4 laboratory hours.

Prerequisite: 9 term hours in zoology.

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

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

331-2-3. *Animal Histology and Embryology*. 1 lecture hour, 6 laboratory hours.

Prerequisite: 18 term hours in zoology.

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

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

431-2-3. *Zoological Problems*.

Prerequisite: Zoology 331-2-3, and any other courses deemed necessary in individual cases.

Readings, conferences and laboratory work.

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

III. BACTERIOLOGY

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

Prerequisite: 9 term hours in botany or zoology.

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

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

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

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

The morphology and physiology of the bacteria, yeasts, and molds, with emphasis on their relationship to the home.

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

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

Prerequisite: 18 term hours in botany or zoology.

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

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

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

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

The micro-organisms of the soil.

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

IV. BIOLOGY

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

Prerequisite: 18 term hours in the biology department.

Lectures, assigned readings, reports, and laboratory problems. A study of the laboratory and its equipment, biological illustration, collections, exhibits, herbaria, types of biology courses, textbooks, references, biological institutions and workers, and various other educational aspects of biology. May be counted as Education or as Biology.

231. *Heredity*. 3 lecture hours.

Prerequisite: 9 term hours in botany or zoology.

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

232. *Evolution*. 3 lecture hours.

Prerequisite: 9 term hours in botany or zoology.

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

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

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

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

The course may be repeated with full credit.

DEPARTMENT OF CHEMISTRY

Professors Read, Ray, Craig. Assistant Professor Slagle.
Instructors Marshall, Read.

Teaching Assistants Galbraith, Cross.

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

Designed to lay a sound and thorough foundation for all succeeding courses in this and related subjects. Required for Engineering and Home Economics freshmen and Agriculture sophomores. Elective as natural science for Liberal Arts students.

It has been found desirable and necessary to recognize the work done in the high school to the extent that a separate course in General Chemistry has been arranged for those students who have completed recently and satisfactorily a standard high school course in this subject.

Section A. For students who do not present entrance credits in chemistry.

Section B. For students who have entrance credits in chemistry and who are able to satisfy the department of their ability to profit by a special course in this subject on the basis of their previous training.

The fee for each course in the Department of Chemistry is \$4.00 for the year. A deposit of \$4.00 is required for Chemistry 141-2-3 and for Chemistry 153. A deposit of \$6.00 is required for all other laboratory courses. After deduction for breakage and non-returnable material, the remainder of the deposit is returned to the student. No fee is returnable after a student has been in the course more than two weeks.

153. *Elementary General Chemistry*.

Same as Chemistry 143, with three additional laboratory hours in the spring term. Designed to meet pre-medical requirements, but may be taken by other students with the permission of the department.

234-5-6. *The Principles of Chemistry*. 3 lecture hours.

Prerequisite: Chemistry 141-2-3.

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

230. *The Teaching of Chemistry.*

Prerequisite: Chemistry 234-5-6, and one full course in Education. May be taken parallel with Chemistry 234-5-6.

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

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

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

Gravimetric Analysis, Volumetric Analysis, completing the basic training in Quantitative Analysis; Qualitative Analysis. Required for all students majoring in chemistry, and recommended for those working in other fields of science who desire to secure a thorough foundation in chemistry.

310-11. *Chemical Engineering Calculations.* 1 class hour.

Prerequisite: Chemistry 141-2-3 and Chemistry 234-5-6.

The solution of problems pertaining to fuels and combustion, sulphur, lime, cement, refractories, and heavy chemicals. Required for students majoring in Chemical Engineering, and open to any others interested in chemical industries.

Fall and winter terms.

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

Prerequisite: Chemistry 141-2-3.

A study of the compounds of carbon, providing a thorough foundation for other courses in organic, physiological, and industrial chemistry. Meets pre-medical requirements.

331-2. *Organic Chemistry.* 2 lecture hours, 3 laboratory hours.

Prerequisite: Chemistry 141-2-3.

Required for Home Economics students who are majoring in Teacher Training and in Nutrition, and Agriculture students in Animal Husbandry and Dairy Products. Open to other students only by special permission. Does not meet pre-medical requirements.

Winter and Spring terms.

336-7-8. *Industrial Chemistry.* 3 lecture hours.

Prerequisite or parallel: Chemistry 234-5-6 and Chemistry 343-4-5.

A study of leading chemical industries from the point of view of unit chemical engineering operations, the fundamental theories and principles of chemistry involved, and economic and business principles.

Intended for students majoring in Chemistry and in Chemical Engineering, but students who wish to take this course as a cultural subject, and who have completed only Chemistry 141-2-3 or its equivalent, may be admitted provided their records in the elementary course are exceptionally good.

339. *Power Plant Chemistry.* 9 laboratory hours.

Prerequisite: Chemistry 141-2-3.

A course dealing with boiler feed water, fuel, and lubricants, and the practical tests of these materials for use in the power plant. Lectures demonstrations, problems and tests. Required for Electrical and Mechanical Engineers. Open to other students by special permission.

333. *Organic Preparations.* 9 laboratory hours.

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

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

431. *Technical Analysis.* 9 laboratory hours.

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

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

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

Three lectures and recitations per week.

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

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

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

Prerequisite: Chemistry 234-5-6, Chemistry 237-8-9 and Chemistry 343-4-5, 6 term hours in Calculus, 15 term hours in

Physics. Chemistry 343-4-5 may be taken parallel with this course, but the other prerequisites must have been completed.

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

437-8. *Physiological Chemistry*. 2 lecture hours, 3 laboratory hours.

Prerequisite: Chemistry 141-2-3, and either of the courses in Organic Chemistry. Fundamental biological chemistry; tests and experiments with those substances connected with life processes.

Required of Home Economics students taking the Nutrition major, and strongly recommended for advanced Agricultural and Pre-Medical students.

Winter and Spring terms.

437-8. *Graduate Courses*: Courses numbered 333, 431, 437-8 and 441-2-3 may be taken for graduate credit.

DEPARTMENT OF ECONOMICS AND BUSINESS ADMINISTRATION

Professor Condray. Associate Professor Nissley
Assistant Professor Corry

The Department of Economics and Business Administration is one of the departments in the School of Liberal Arts, and offers the degree of Bachelor of Arts in Business Administration to students who fulfill the special requirements of the Department for this degree. Where electives may be chosen, the Department of Economics and Business Administration has in some instances specified the electives to be taken. Specialization takes place in the third and fourth years; the first two years are devoted to required courses and fundamentals. Liberal Arts students who do not seek the degree of Bachelor of Arts in Business Administration may major in Economics and Business Administration.

BASIC COURSES

231-2-3. *Introduction to Economics*.

Prerequisite: Sophomore standing.

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

234-5-6. Introduction to Accounting.

Prerequisite: Sophomore standing.

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

331-2-3. Introduction to Business Administration.

Prerequisite: Economics 231-2-3.

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

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

333-4-5. Commercial Law.

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

Although this course aims to familiarize the student with the ordinary rules of law, it is not designed to give him sufficient knowledge to enable him to decide all legal questions himself; rather it is designed to arm the student with the rules concerning legal instruments, torts and contracts and to enable him to tell when professional legal advice is necessary. Required for Business Administration students.

PRODUCTION DIVISION

3321-22-23. Industrial Management.

Prerequisite: Economics 231-2-3.

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

4210-11-12. Personnel Administration.

Prerequisite: 3321-22-23.

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

4310-11-12. Trade Unionism.

Prerequisite: 3321-22-23.

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

MARKETING DIVISION

3310-11-12. *Marketing Administration.*

Prerequisite: Economics 231-2-3. Marketing structures and agencies; practices and tendencies in the distribution of raw materials and manufactured products. Methods of sale, psychology of the buying public, and marketing strategy.

3340-41-42. *Business Communication.* 3 class hours, 3 laboratory hours.

Prerequisite: Economics 231-2-3.

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

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

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

421-2-3. *Business Forecasting.*

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

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

FINANCE DIVISION

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

Prerequisite: Economics 231-2-3.

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

431. *Advertising Principles and Practice.*

Prerequisite: 3310-3311-3312.

432. *Salesmanship.*

Prerequisite: 3310-3311-3312.

433-4. *Transportation.*

Prerequisite: 3310-3311-3312.

435. *Retail Selling and Store Management.*

Prerequisite: 3310-3311-3312.

337-8-9. Administration of Finance.

Prerequisite: Economics 231-2-3.

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

437. Advanced Banking Practice.

Prerequisite: 337-8-9.

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

438. Investments.

Prerequisite: 337-8-9.

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

439. Corporation Finance.

Prerequisite: 337-8-9.

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

4350-51. Risk and Risk-Bearing.

Prerequisite: 337-8-9.

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

4330-31-32. Insurance.

Prerequisite: 337-8-9.

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

430. Public Finance.

Prerequisite: 337-8-9.

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

ACCOUNTING DIVISION

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

Prerequisite: Economics 234-5-6.

A course dealing with accounts peculiar to the corporate form of organization, method of handling fixed assets, intangible as-

sets, analysis of financial statements and methods of effecting control through accounting records and reports.

4213-14-15. Cost Accounting.

Prerequisite: 316-17-18.

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

4332-33-34. Auditing and Advanced Problems.

Prerequisite: 3316-17-18.

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

4370. Income Tax Procedure.

Prerequisite: 3316-17-18.

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

A fee of \$4.00 is charged for courses in accounting.

GRADUATE COURSES

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

DEPARTMENT OF EDUCATION AND PSYCHOLOGY

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

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

Since a thorough technical knowledge of subject matter is essential to successful teaching, the closest co-operation is sought and maintained with the other departments of the College to the end that students of Education may secure a scientific and technological basis for relating subject matter to all forms of Education.

Courses in Psychology include General Psychology, Educational Psychology and topics in both Experimental and Empirical Psychology.

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

REGULATIONS GOVERNING STATE TEACHERS CERTIFICATES

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

On completion of five college courses in a first-class college, including 108 hours in English and 108 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 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 must include a minimum of thirty-six recitation hours in practice teaching.

Permanent High School Certificate.

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

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

One Year Extension of Certificates of Any Grade.

Students of Texas Technological College have the privilege of taking advantage of the new certificate law passed by the Legislature of Texas and designed to extend for one year a certificate of any grade. This applies to the completion of twelve term hours in the summer school only for the extension of certificates expiring during the current year after the opening of summer school.

Special Certificates

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

EDUCATION

131. Introduction to Education.

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

132. Class room Organization and Control.

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

133. Methods of Teaching in the Elementary Grades.

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

230. Rural Education.

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

232. History of Education.

Prerequisite: Sophomore standing.

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

233. Measurement in Education.

The instruments and technique of measuring the results of instruction. Tests, tabulation and established treatment of scores; interpolation, description and uses of results for improving instruction.

234. Secondary Education.

Prerequisite: Sophomore standing.

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

235. The High School Curriculum.

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

236. Methods of Teaching in the High School.

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

237. Primary-Kindergarten Education.

An introduction to primary-kindergarten education, dealing with such topics as the curriculum, psychological principles, methods and supplies.

238. Primary Education.

Organization, subject matter, supplies, and methods of instruction for third and fourth grades.

239. Principles of Teaching.

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

3310. *Mental Tests.*

Prerequisite: Education 233.

A course dealing with the principles, application and technique of the various types of mental tests. The chief emphasis will be given to the theory of mental tests and to the application of such tests to the fields of education, business, the professions, etc.

3311. *Advanced Kindergarten and Primary Education.*

A continuation of kindergarten and primary work based on organization, subject matter, supplies, and methods of instruction.

3312. *Advanced Kindergarten and Primary Education.*

A continuation of Education 3311.

330. *Methods of Teaching English in the High School.*

See English 3310.

331. *Principles of Education.*

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

332. *High School Problems.*

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

333. *Observation and Practice.*

Prerequisite: Junior or senior standing or consent of instructor.

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

335. *The Junior High School.*

Designed to give teachers and principals a knowledge of the principles underlying the organization of the junior high school. Topics: The function of the junior high school; curricula and programs of study; discipline and social activities; homogeneous grouping; articulation with the elementary school and the senior high school; study of concrete cases and local conditions.

336. *Educational and Vocational Guidance.*

Designed for superintendents, principals and teachers who feel the distinctive need for educational, professional and vocational guidance. Guidance for college students, and also for students of junior and senior high school rank.

*337. *Classroom Tests.*

A critical study of new-type tests, their advantages and disadvantages; practice in making and giving teachers' classroom tests; scoring and tabulating results; using tests for diagnosis and the improvement of teaching; comparison of traditional and new-type tests, with an evaluation of each.

338. *Every Teacher's Problems.*

An enumeration and discussion of the problems that confront the teacher in the schoolroom and some guiding principles for their solution. Individual and social as well as professional problems that are common to present-day teachers.

339. *Sociological Principles of Education.*

A comparison of the fields of psychology and sociology in their relation to the principles and processes of education.

431. *Directing Study.*

Discussion of the literature involving individual and group study. An evaluation of study plans and methods for stimulating and guiding pupils at work through the technique of study.

432. *Texas Educational System.*

The history and development of education in Texas; the parts of the system and how they function; state, county and local administration; a discussion of present practices, including school laws and administrative processes; state aid, classification, affiliation and consolidation.

434. *Education in the United States.*

Prerequisite: Education 232.

A comprehensive survey of educational history, theory, and practice in the United States; the origin and development of public elementary and secondary education.

435. *The Curriculum.*

Prerequisite: Senior standing or consent of instructor.

The problems of curriculum reconstruction in the light of

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

recent investigations. A detailed study of the fundamental bases of the curriculum. The relation of curricular and extra-curricular activities.

436. *Public School Administration.*

Prerequisite: Senior standing or consent of instructor.

A study of the problems that confront the superintendent or principal, such as classification and grading, arranging courses of study, selection and improvement of the teaching staff, relations with teachers, school board and general public.

437. *School Publicity.*

The aims and underlying principles of school publicity policy, organization of publicity, media of approach to the public, and appraisal of the publicity work.

438. *The Supervision of Instruction.*

Designed to give prospective principals, superintendents, supervisors, and teachers an understanding of the principles and technique of supervising instruction. The organization and planning of supervision, methods and devices for the improvement of teaching, evaluating the efficiency of teachers and supervisors, and the training of supervisors.

439. *The Philosophy of Education.*

A rapid survey of the important educational theories which have prevailed in the past, and their significance. A more detailed study of modern educational aims and conceptions. The bearing of these aims upon current educational practices.

530. *Research.*

Investigation of special problems in education selected in conference with the instructor.

531. *Public School Business Administration.*

A study in educational finance, including the principles underlying the levy of school taxes, apportionment of school funds, the school budget, salary schedules, and comparative school costs.

PSYCHOLOGY

230. *Introduction to Psychology.*

A general introduction to the study of mental processes. Lectures, recitations, and demonstrations illustrating the principles of general psychology.

231. Educational Psychology.

The principles of psychology in their application to education, with emphasis upon the mental processes involved in the study of the various school subjects. The native responses of the child and their modification by education; the different types of learning, methods of memorizing, transfer of training, and fatigue.

232. General Psychology.

Continuation of Psychology 230. A survey of certain problems, principles and methods of psychology. Facts and theories current in general psychological discussion.

236. Business Psychology.

A course in applied psychology arranged specially for students interested in the psychology of advertising and salesmanship.

331. Child Psychology.

The physiology and psychology of childhood. The effect of child study on methods of instruction and school management. The general nature, growth and development of the child.

332. Advanced Educational Psychology.

Prerequisite: Psychology 231 or its equivalent.

A more detailed study of the psychological processes which have to do with school room situations. A serious study of such subjects as Laws and Principles of Learning, How to Study Effectively, Transfer of Training, Problems of Heredity, Individual Differences, and Measurement of Intelligence.

333. Social Psychology.

A study of human nature from the standpoint of social behavior. Influences of the social environment upon the mental and moral development of the individual.

334. Experimental Psychology.

Mainly laboratory work with standard apparatus in current problems in experimental psychology. Special attention to methods of psychological investigation and the collection and treatment of data. Individual and group experiments.

335. The Psychology of Adolescence.

The interpretation of adolescent behavior on the basis of the developmental changes of the period. The important physical, mental and moral changes natural to adolescence. Of special interest to all who have to deal with boys and girls of high school age.

337. *Statistics.*

A basic treatment involving the mathematics of statistics.

338. *Statistics.*

Fundamentals of Educational statistics.

339. *Statistics.*

Continuation of 338.

RELIGIOUS EDUCATION**127. *Introduction to New Testament Study.*****128. *Introduction to Old Testament Study.*****129. *The Life of Christ.***

For information relative to the teaching of various high school subjects see courses listed in various departments, as follows:

Biology 211-12-13, The Teaching of Biology; Chemistry 230, The Teaching of Chemistry; English 3310, The Teaching of High School English; History 530, The Teaching of History in High School; Latin 339, Teachers' Course in Latin; Math. 230, The Teaching of Arithmetic; Math. 334-5-6, The Teaching of Secondary Mathematics; Physics 233, The Teaching of High School Physics; Speech 431, Teachers' Course; Spanish 634, Teachers' Course in Methods of Teaching Spanish.

DEPARTMENT OF ENGLISH

Professors Carter, Mills, Smallwood, Doak. Associate Professors Gates, McGee, Fowler, Robnett. Assistant Professors Strout, Murphy, Horne. Instructors Allen, Gill, Teague, Knickerbocker.

For a major in the Department of English 54 term hours are required, of which 36 must be in the courses that bear the catalogue numbers 300 and above. Students who do major work in English with the expectation of teaching English in the high schools (or of going forward to professional degrees) must from the beginning of the junior year follow a determinate program of study prescribed by the head of the department.

English 131-2-3 (Composition and Rhetoric), or its equivalent, is required of all entering students. English 231-2-3 (Introduction to the Study of Literature) is required of all students in the Schools of Liberal Arts and Home Economics. Special courses for students in the Schools of Engineering and Agriculture have been provided in English 2310-11-12 and 2313-14 respectively.

131-2-3. *Composition and Rhetoric.*

Lectures, themes, conferences, and assigned readings.

231-2-3. *Introduction to the Study of Literature.*

Lectures, themes, and assigned readings.

2310-11-12. *Writing based on Nineteenth Century Masterpieces.*

Weekly themes, with considerable reading in standard English literature.

For Engineering Students.

2313-14. *Special Work on Correct Usage.*

Themes, reports, and much practical experience in precise writing.

For Agriculture students.

JOURNALISM AND ADVANCED COMPOSITION

English 131-2-3, or practical newspaper experience, is prerequisite to any course in Journalism.

134. *Newspaper Reporting and Writing.*

News writing, including a study of the sources of news, methods of gathering news, news values and types, and preparation of copy.

135. *Special Feature Articles.*

Special newspaper, magazine and syndicate feature articles; types; sources; methods of writing; illustration; and marketing.

136. *News Editing.*

Valuation of news; copy editing; newspaper style; building heads; typographical styles; make-up; proofreading; rewriting; and much practice.

237. *Management of the Newspaper.*

Organization, sources of income and expenditure, advertising and circulation, news services, salaries and wages, unions, publishers' associations, and general business problems.

238. *Editorial Writing.*

The history and development of the editorial. Training in editorial writing with reference to style, content and purposes.

239. *History of American Journalism.*

The origin and growth of the American newspaper, from the colonial paper to the metropolitan journal of today.

320. *Principles of Journalism.*

The law of libel, newspaper ethics, and the relation of the press to society.

321. *Publicity.*

Methods used by business, educational, and religious institutions. Publicity programs.

325. *Advanced Composition.*

Prerequisite: grades of A or B in the first two years of English.

530. *The Short Story.*

The contemporary short story, including the works of Cobb, Mansfield, Galsworthy, Conrad, Anderson, Steele, and Dreiser, with opportunity for practice in writing for those interested in narrative technique.

LANGUAGE

332. *History of the English Language.*

The development of the English Language from the beginnings, with special reference to the use of English in America.

337. *Grammar for Speech.*

Accepted usage, and principles useful for English and foreign languages.

327. *Grammar as a Science.*

Prerequisite: English 337, or a fair mastery of accepted usage and principles.

Actual grammar of our language as learned from a textbook and through original studies.

DRAMA

334. *American Drama: from the Beginning to 1830.*

Plays, playwrights, and stage movements, with special attention to native themes and ideals.

335. *American Drama: 1830 to 1900.*

The geographical expansion of the theatre.

336. *American Drama: 1900 to the Present.*

Individual and group tendencies in the drama.

437. *Pre-Shakespearean Drama.*

The plays of Lyly, Greene, Peele, Kyd, and Marlowe.

430. *Elizabethan Drama.*

Non-Shakespearean drama, from Dekker to Shirley.

431. *Restoration and Eighteenth Century Drama.*

Representative plays from Dryden to Sheridan.

432. *Shakespeare and the Background.*

Lectures, reports, and a study of three plays.

433. *Shakespeare Criticism.*

An investigation of Shakespeare criticism, together with a reading of six plays.

439. *Contemporary Drama: Ibsen to Shaw.*

The dramatic work of Ibsen, Strindberg, Tolstoy, Chekhov, Hauptmann, Wedekind, Becque, Hervieu, Galsworthy, and Shaw.

POETRY

330. *Chaucer.*

The Prologue, tales and lyrics, with some consideration of Chaucer's age, art and sources.

326. *Contemporary English Poetry.*

The verse of Masfield, Ernest Dowson, James Elroy Flecker, Rupert Brooke, and Thomas Hardy.

333. *The Elizabethan Lyric.*

Emphasis on Spenser, Shakespeare, Jonson, Donne, and Campion.

338. *American Poetry: Bryant to Longfellow.*

Emphasis on the distinguishing quality and style of the individual writer.

339. *American Poetry: Whittier to Whitman.*

329. *American Poetry: Emily Dickinson to the Present.*

421. *Dryden.*

The major poems and the minor poems, with some emphasis on the translations.

422. *Pope.*

Satires, lyrics, with some emphasis on the translations.

427. *Browning.*

The major and minor poetry.

428. *Tennyson.*

Many of the shorter poems and several of the longer works.

429. *The Pre-Raphaelites.*

D. G. Rossetti, Swinburne, William Morris, and Christina Rossetti.

434. *Milton.*

The major and minor English poems.

435. *English Romanticism.*

Selected poems of Burns, Wordsworth, and Coleridge.

436. *English Romanticism.*

Selected poems of Byron, Shelley, and Keats.

537. *Spenser.*

The Shepherd's Calendar, Amoretti, several of the shorter poems, and selected parts of The Faerie Queene.

PROSE AND PROSE FICTION

424. *American Prose: Franklin to Holmes.*

An appreciative reading and literary appraisal of the more significant prose writers.

426. *Literary Biography.*

Its function and place in letters, and reading of several outstanding biographies.

536. *Contemporary English and American Essay.*

Leacock, Powys, Canfield, Chesterton, Galsworthy, Hudson, Montague, Morley, and others.

438. *Nineteenth Century English Prose.*

Selections from the writings of Lamb, Hazlitt, DeQuincey, Carlyle, Ruskin, Arnold, and others.

531. *The American Novel: 1870 to the Present.*

James, Howells, Wharton, Gale, Dreiser, Hergesheimer, Cather, and others.

532. *The English Novel: Lyly to Scott.*533. *Types of English and Foreign Fiction: 1825 to 1910.*

GENERAL LITERATURE

236. *Biblical Literature.*

The influence of the Bible upon English literature, with special reference to the works of Shakespeare and Browning.

322. *Outline of English Literary History: 1340 to 1660.*

A chronological survey of English literature and its historical background.

323. *Outline of English Literary History: 1660 to 1798.*324. *Outline of English Literary History: 1798 to 1900.*423. *The Age of Johnson: Johnson and his Circle.*538. *Southern Literature.*

Important writers and speakers of the South, with some emphasis on regional themes.

3310. *Methods of Teaching English in the High School.*

See Education 330.

GRADUATE COURSES

534. *Old English.*

An introduction to the phonology and morphology of Old English.

535. *Beowulf.*

Reading and discussion of selected passages of the Wyatt and Chambers edition of *Beowulf*.

540. *Seminar: History of Literary Criticism.*

541. *Seminar: Wordsworth and the French Revolution.*

Prerequisite: graduate standing or English 435-6.

542. *Seminar: American Poetry and Poetic Theory.*

DEPARTMENT OF FRENCH

Professor Beck. Associate Professor Henninger. Assistant Professor Madonne

131-2-3. *A Course for Beginners.*

Grammar, reading and conversational practice. Much attention given to pronunciation and the training of the ear.

231-2-3. *Reading of French Texts.*

Prerequisite: French 131-2-3, or two years of high school French.

Reports, grammar review, composition and conversational practice.

331-2-3. *History of French Literature.*

Prerequisite: French 131-2-3, 231-2-3, or four years of high school French.

A general survey course intended to impart familiarity with the principal names, titles, and currents. Class readings, reports, and lectures. Considerable work in oral and written composition.

431-2-3. *French Literature of the Eighteenth and Nineteenth Centuries.*

Prerequisite: French 331-2-3, or its equivalent.

An intensive study of Pre-revolutionary and pre-romantic movements. Victor Hugo and the Romantic Movement. Lectures, assigned readings, term papers. Conducted chiefly in French. For advanced undergraduates and graduate students.

Offered only if there is a satisfactory demand.

DEPARTMENT OF GEOLOGY

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

Students desiring professional training in geology may register as Liberal Arts students and major in geology, or they may pursue the course in Geological Engineering offered in the School of Engineering. Students who elect to major in geology must

select their courses in consultation with the head of the department. Students who wish to take the course in Geological Engineering are referred to the announcements of the School of Engineering.

Students in the School of Liberal Arts who desire to fulfill their science requirements may take Geology 141-2-3.

The fee for each nine months laboratory course in the Department of Geology is \$4.00.

141-2-3. General Geology. 3 lecture hours, 1 laboratory period.

Intended both for those who desire a knowledge of geology for cultural purposes and as a foundation course for those intending to take further work in geology.

231-2. Mineralogy. 1 lecture hour, 2 laboratory periods.

Prerequisite: Preceded or accompanied by general chemistry.

Principles of crystallography; methods of identification of minerals; occurrence and properties of minerals.

Fee: \$3.00.

233. Introductory Economic Geology. 3 lecture hours.

Prerequisite: Geology 231.

An introductory course in the economic aspects of geology, treating of the origin, occurrence, discovery, and development of the principal metallic and non-metallic minerals, together with their relation to economic and political problems.

330. Geologic Mapping. 1 lecture hour, 2 laboratory periods.

Prerequisite: Geology 141-2-3, and Engineering 230 or Engineering 241-2-3.

Methods of using the surveying aneroid, hand level, clinometer, Brunton compass, hand transit, telescopic alidade; plane table methods; making of topographic surveys and structure contour maps.

290. Field Geology.

Prerequisite: Geology 141-2-3.

An intensive course in the methods of geologic surveys and field investigations. The field for 1928 was Glacier National Park, Montana. The field for 1929 will be announced later. Designed especially for those seeking professional training in geology.

Given in the field during the first six weeks of the summer school.

311-2-3. *Geology of Texas.* 1 lecture hour.

Prerequisite: Geology 141.

Physical and historical geology of the State of Texas.

332-3. *Engineering Geology.* 3 lecture hours.

Prerequisite: None.

A course in general geology adapted to the special needs of students in Civil Engineering.

334-5-6. *Petrology.* 1 lecture hour, 2 laboratory periods.

Prerequisite: A course in general geology and Geology 231.

A study of rocks and rock making minerals, their characteristics, and methods of field identification. Training in the use of the petrographic microscope, the technique of petrographic methods, the petrology of sedimentary rocks, and the practical application of petrographic methods in economic work, especially to problems of petroleum geology.

337-8-9. *Advanced Paleontology.* 1 lecture hour, 2 laboratory periods.

Prerequisite: Geology 141-2-3.

A study of the detailed structures, bases of classification, and geologic history of the various groups of invertebrates.

413-4-5. *Seminar.*

Prerequisite: Junior or Senior standing.

Assigned readings and discussions of current geological problems.

431-2-3. *Advanced Physical, Structural and Historical Geology.* 3 lecture hours.

Prerequisite: Geology 141-2-3, 231-2-3 and 337-8-9.

An intensive study of the outstanding problems in physical, structural and historical geology. Reading in the original literature of each subject.

434. *Economic Geology.* (Exclusive of Petroleum) 3 lecture hours.

Prerequisite: Geology 141-2-3, 231-2-3, 234-5-6.

An advanced course in economic geology devoted to problems relating to deposits of metallic minerals. Includes an intensive study of the principal metallic minerals, their mode of occurrence, problems of their genesis, specific problems of the different mining centers, methods of exploration, and economic questions relating to the deposits.

435-6. *Geology of Petroleum*. 3 lecture hours.

Prerequisite: General Geology, Economic Geology 434.

A course for students expecting to engage in the exploration and development of oilfields. Includes a study of the problems of origin and accumulation of oil deposits, assembling and interpretation of data bearing on problems of petroleum geology, and special consideration of problems peculiar to certain fields.

437-8-9. *Advanced Paleontology*. 1 lecture hour, 2 laboratory periods.

Prerequisite: Geology 337-8-9.

An advanced course in the study of fossils designed especially for those who expect to enter economic work. Especial attention given to micro-fauna and their use in methods of petroleum geology.

441-2-3.

Prerequisite: Thirty-six term hours in Geology and Senior or Graduate standing.

Course and credit to depend upon preparation and needs of student. Registration only with the approval of the Head of the Department.

531-2-3. *Sedimentation*. 1 lecture hour, 2 laboratory periods.

Prerequisite: Thirty-six term hours in Geology, including Geology 334-5-6.

An advanced investigative course including the processes and results of sedimentation together with analytical laboratory work on sediments. Special attention to subsurface methods.

DEPARTMENT OF GERMAN

Professor Beck. Associate Professor Henninger

131-2-3. *A course for Beginners*.

Grammar, reading, and conversational practice.

231-2-3. *Reading of German Texts*.

Prerequisite: German 131-2-3, or two years of high school German.

Reports, grammar review, composition and conversational practice.

331-2-3. History of German Literature.

Prerequisite: German 131-2-3, 231-2-3, or four years of high school German.

A general survey course based upon standard texts. Collateral readings and reports.

A course in scientific German may be substituted if the demand justifies the substitution.

DEPARTMENT OF GOVERNMENT

Professor Jackson. Associate Professor Pender.

Instructor Ballard

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.

131-2-3. American Government.

For freshmen and sophomores. Juniors and seniors should take 331-2 or get reduced credit.

A fundamental course dealing with the principles, organization and actual workings of American Government, National and State. Emphasis will be placed upon the duties and obligations of citizenship. In dealing with State Government illustrative materials will be drawn largely from Texas.

220. Parliamentary Law and Practice.

Open to all students except freshmen.

A study of the recognized rules and practices governing the action of deliberative bodies.

234. Introduction to Political Science.

Prerequisite: Sophomore standing.

A study of the origin, development, and functions of political institutions in connection with consideration of political theories.

235-6. Modern Governments.

Prerequisite: Sophomore standing.

A comparative study and analysis of the constitutional organization of the governments of England, France, Switzerland and the newer states of Europe.

237-8-9. Contemporary Legislation.

Prerequisite: American Government or American History.

The first part of this course will consist of a study of the rules regulating statute law making. The principal part of the course, however, consists of an analysis of contemporary and current political, social, and economic legislation.

331-2. American Government.

For juniors and seniors who have not had Government 131-2-3.

334. Municipal Government.

Prerequisite: American Government.

The general features of Municipal Government and Administration, with special reference to Texas cities.

335-6. American Political Parties.

Prerequisite: American Government.

A survey of the origin and development of political parties in the United States, followed by a study of party functions, organization, campaign methods, elections, and party finance.

337-8. American Diplomacy and Foreign Service.

Prerequisite: American Government or American History.

A study of the relations of the United States to foreign nations and of the organization of the State Department and Foreign Service.

329. World Politics.

Prerequisite: American Government or one college course in history.

A study of the problems and issues which have arisen in the family of nations, of the organization and efforts to cope with these problems, and of the principles of international conduct.

400. Readings in Government.

Registration for this course may be at any time upon approval of the head of the department. It is designed to take care of individual student needs. The number of term hours will be determined by the amount, nature, and character of the work done.

421-2-3. American Political Ideas.

Prerequisite: American Government or American History.

A study of the lives and ideas of leading political thinkers of the United States from the Colonial period to the present.

431. *American Constitutional Law.*

Prerequisite: American Government or American history.

A study of the interpretation of the Constitution of the United States, based principally upon Supreme Court decisions. The leading cases in American Constitutional Law will be analyzed.

432-3. *International Law.*

Prerequisite: American Government or one college course in History.

A study of the fundamental principles of International Law, with special emphasis upon American interpretations and contributions.

434-5. *Political Geography.*

Prerequisite: Government 131-2-3, 235-6.

A study of the development and distribution of political ideas and institutions as they are related to geographical regions, so as to acquaint the student with the main problems of politics in their relation to world geography.

436. *Government of Colonies.*

Prerequisite: Government 131-2-3, 235-6.

A comparative study of the principles of government and methods of administration of colonies and dependencies as developed by the leading colonial powers of the world, with special reference to the government of American colonies.

531-2-3. *Research.*

Intended for graduate students. Registration may be made only upon the approval of the head of the department.

330. *Business Law.*

Designed primarily for professional students who desire some knowledge of law as it relates to ordinary business transactions.

Open to juniors and seniors who have not had Economics 334-5.

Business Law.

For number and description of course see Economics and Business Administration.

Public Finance.

For number and description of course see Economics and Business Administration.

DEPARTMENT OF HISTORY

Professors Granbery, Eaves, Ford, McKay. Associate
Professor Boone. Instructor Carroll

Students selecting history for their major subject should take as a prerequisite the freshman outline course (131-2-3). Courses numbered under 300 are introductory, intended for freshmen and sophomores, designed both to serve as independent units and as a basis for advanced courses in history.

If history is selected as a major subject the student should have a reading knowledge of at least one foreign language. The language work should be taken early in the college course. The student specializing in history without a reading knowledge of French and German, and for Latin-American courses, Spanish, is handicapped. For certain courses Greek and Latin are especially useful.

131-2-3. History of Civilization.

A survey course, basic for work in social science and prerequisite to advanced work in history. Ancient, medieval, and modern history are covered.

134-5-6. History of England.

Limited to Pre-law students.

A lecture course dealing with the economic, political, and social development of Great Britain.

*231-2-3. *History of the United States.*

Prerequisite: History 131-2-3 or 134-5-6.

Business Administration students with sophomore standing may be enrolled without the prerequisite. A survey of American history from the discovery of America to the present time with equal emphasis upon economic, political and social history.

234-5-6. History of England and the British Empire.

Prerequisite: History 131-2-3.

Economic, political and social development of Britain.

*237-8-9. *History of the Two Americas.*

Prerequisite: History 131-2-3.

A survey course of Pan-America, showing the background, colonization, movements for independence, and development of the American nations.

*231-2-3 and 237-8-9 should not be taken by the same student.

331-2-3. History of Europe through the Renaissance.

Prerequisite: 18 term hours in History, including 131-2-3.

Greek civilizations, institutions of the Roman Empire, and the rise and development of European nations.

334-5-6. History of Europe, 1492-1900.

Prerequisite: 18 term hours in History, including 131-2-3.

The Protestant Revolt, colonial rivalries, the French Revolution, Napoleon, the Congress of Vienna, Italian and German unification, and international rivalries.

337-8-9. History of Latin-America.

Prerequisite: History 231-2-3 or 237-8-9.

European background, the work of the conquerors, colonial policy, native races, wars of independence, and the economic, political and social development of the republics.

411-2-3. Foreign Policies of the United States.

Prerequisite: History 231-2-3 or 237-8-9.

History of American diplomacy and study of the principles that have controlled our foreign policies.

431-2-3. Colonial America, 1492-1763.

Prerequisite: History 231-2-3 or 237-8-9.

The discovery, exploration, and settlement of the thirteen colonies. Economic, political, and social development until 1763.

434-5-6. History of the United States, 1763-1801.

Prerequisite: History 231-2-3 or 237-8-9.

A detailed study of the American Revolution, the Confederation Period, and organization of the government by the federalists.

437-8-9. History of the United States, 1801-1850.

Prerequisite: History 231-2-3 or 237-8-9.

The Jeffersonian system, the War of 1812, the Monroe Doctrine, Jacksonian Democracy, and the expansion of the Southwest and the Far West.

531. Twentieth Century Europe.

Prerequisite: 18 term hours in History, including History 131-2-3.

The causes of the World War, the Peace of Versailles, and problems since the World War.

Fall Term.

532. *Economic Development of Modern Europe.*

Prerequisite: 18 term hours in History, including History 131-2-3.

The problems of recent times in Europe concerning labor, tariffs, trade, railroads, credit, exchange, finance, agriculture and industry.

Winter term.

530. *The Teaching of History in High Schools.*

Prerequisite: 18 term hours in History, including History 131-2-3.

The most advanced methods in teaching history in Junior and Senior high schools. May be counted as either History or Education.

Spring term.

533-4-5. *History of the United States, 1850-1877.*

Prerequisite: History 231-2-3 or 237-8-9.

The economic, legislative, and political history of slavery in the United States, the Old South, the Civil War, and Reconstruction.

536-7-8. *History of the United States, 1877-1928.*

Prerequisite: History 231-2-3 or 237-8-9.

The Agrarian Crusade, the Free Silver movement, big business, the new nationalism, the World War, and present-day problems.

5310-11-12. *Expansion of the United States.*

Prerequisite: History 231-2-3 or 237-8-9.

Growth of the nation through conquest, diplomacy, expansion, and purchase, from the Declaration of Independence to the present time.

511-2-3. *Historical Methodology and Bibliography.*

Prerequisite: 18 term hours of advanced work in History.

The sources of history, the legend, methods of advanced historical research and criticism, and evaluation of authors.

Strongly recommended for all students majoring in history.

5313-14-15. *History of Texas.*

Prerequisite: History 231-2-3 or 237-8-9.

The whole period under six flags.

5316-17-18. *Latin America, the United States, and the Southwest.*

Prerequisite: History 231-2-3 or 237-8-9.

Relations of the United States with Latin America, the ancient culture of the Southwest, and the recent development of the states of the Southwest.

DEPARTMENT OF LATIN

Mrs. Dingus

Latin 101-2-3. Beginning Latin.

Forms, word-formation, and the fundamentals of syntax, followed by easy reading. Especially adapted to the needs of students preparing for law or medicine. Offered for entrance credit only. Two units.

131-2-3. Reading and Composition.

Prerequisite for 131-2: Two units of high school Latin.

Prerequisite for 133: Three units of high school Latin.

Selections from Caesar, Cicero and Virgil. A review of Latin grammar. Informal instruction in mythology and antiquities.

111. Writing Course.

Required of all students wishing the department's recommendation as teachers of Latin. Strongly recommended for all students offering two or more units in Latin.

231-2-3. Prose Authors and Poets.

Prerequisite: Latin 131-2-3 or the equivalent, or four units of high school Latin.

Selections from Cicero, Terence and Horace.

331-2-3. Junior Reading.

Prerequisite: Latin 231-2-3 or their equivalent.

Selections from Pliny, Tacitus, Catullus.

431-2-3. Senior Reading.

Advanced prose and poetry.

330. The Private Life of the Romans.

Open to students of junior rank; knowledge of Latin not required.

339. Teachers' Course in Latin.

Prerequisite: Latin 231-2-3 or the equivalent, and nine hours in Education.

DEPARTMENT OF MATHEMATICS AND ASTRONOMY

Professors Michie, Sparks. Associate Professor Underwood.
Assistant Professors Thompson, *Stafford, *Robinson,
Bishop. Instructors Heineman, Rosen, Langston
and Christianson

In the Department of Mathematics separate courses are arranged for students in the different schools of the College, and a student matriculated in one school may register for a course offered in a different school only with the consent of the dean of his school and of the instructor in charge of the course. Any course for which less than ten students register may be withdrawn at the discretion of the department.

LIBERAL ARTS

A candidate for the degree of Bachelor of Arts must take one full year of mathematics selected from the following courses: 131-2-3 or 137-8-9, except that students who enter with two units of algebra and one unit of plane geometry may fulfil the requirements by taking 131 and 132. Students who enter with only one unit in Algebra must take 130-1-2. Those entering with one unit in trigonometry must take 131 and 133. 137-8-9 is required of those students majoring in Business Administration.

Courses in Liberal Arts mathematics numbered above 230 are advanced courses.

Students who plan to teach mathematics in high school should take at least 27 term hours in mathematics since the department cannot recommend as teachers those who have taken less than one advanced course. Students majoring in physics or chemistry are strongly advised to take advanced courses in mathematics.

Courses numbered from 237 to 400 are open to graduate students and advanced undergraduate students. Courses numbered above 400 are graduate courses, but may be taken by advanced undergraduate students, with the consent of the instructor.

*Leave of absence in 1928-29.

REQUIREMENTS IN MATHEMATICS FOR THE MASTER OF ARTS DEGREE

For entrance upon graduate work in Mathematics, it is essential that the student should have had college algebra (131, 232, 233), trigonometry (132), and analytical geometry (133, 231), and a full year's course in the differential and integral calculus (234-5-6) and two additional full year courses in such subjects as Theory of Equations.

It is further recommended that, in order to broaden his view point, the student's undergraduate preparation should enable him to pursue graduate work in other subjects, such as physics, astronomy, and logic. He should choose not less than one-half and not more than three-fourths of his work in this department.

Students will be admitted to candidacy for the Master's degree in mathematics only if at least three advanced courses in mathematics have been satisfactorily completed. A reading knowledge of either French or German is required of all candidates. Courses numbered above 400 can be counted as work toward the Master's degree.

It is recommended that students majoring in Mathematics minor in Physics, Chemistry or Philosophy.

It is important that a candidate for the Master's degree should plan his work three quarters in advance and should have the approval of his adviser, who will aid him in selecting a thesis subject.

FOR UNDERGRADUATES

130. *Intermediate Algebra.*

For students who present only one year of entrance algebra and one year of plane geometry; no credit allowed to students presenting more than one year of algebra for entrance.

131. *College Algebra.*

Prerequisite: Two years of high school algebra and one year of plane geometry.

Quadratics, graphs, progressions, logarithms, permutations, combinations, and the binomial theorem.

Required of Freshmen.

132. *Plane Trigonometry.*

Prerequisite: Same as for Mathematics 131.

This course includes the study of trigonometric equations, circular measures, and logarithms.

Required of Freshmen.

133. *Introduction to Analytical Geometry.*

Prerequisite: Mathematics 132.

Brief consideration of cartesian coordinates, plotting curves from their equations, the straight line, and the circle.

231. Analytical Geometry.

Prerequisite: Mathematics 133.

A review of the straight line and the circle, followed by a study of the parabola, ellipse, and hyperbola.

232-3. Advanced Algebra.

Prerequisite: Mathematics 133.

Fundamental operations, systems of equations, equations higher degree, elementary theory of equations, exponential and logarithmic series, undetermined coefficients, recurring series summation series, and probability.

Recommended for all students who intend to teach elementary mathematics or to pursue advanced courses in mathematics.

137-8-9. Algebra and Trigonometry.

Prerequisite: One year of high school algebra and one year of plane geometry.

Review of elementary algebra, progressions, binomial theorem, series, graphs, logarithms, and trigonometric functions.

Required of Freshmen in Business Administration.

230. Teaching of Arithmetic.

Prerequisite: Mathematics 131 or its equivalent.

Designed for teachers of arithmetic in the first seven grades. Admission to course will be restricted to students enrolled in the Department of Education.

234-5-6. Calculus.

Prerequisite: Analytical Geometry 231.

A general course in Calculus for Liberal Arts students. Recommended for teachers of high school mathematics; students of physics and those contemplating advanced work in chemistry, statistics, or life insurance.

FOR UNDERGRADUATES AND GRADUATES

237-8-9. Elementary Theory of Equations.

Prerequisite: Mathematics 234-5-6.

Complex numbers, numerical equations, symmetric functions and determinants.

2310-11-12. *Elements of Statistics.*

Prerequisite: Mathematics 137-8-9.

The study of averages, dispersion, frequency distributions, curve fitting, simple and multiple correlation, with application to economics, education, and business administration.

2310. *Solid Analytic Geometry.*

Prerequisite: Mathematics 231.

A study of the equations of space, curves, planes, straight line, and quadric surfaces.

2311-2-3. *History and Philosophy of Mathematics.*

Prerequisite: Mathematics 234-5-6.

A sketch of the history of mathematics and a philosophical treatment of the topics of arithmetic, algebra, and geometry.

2334-5. *The Teaching of Secondary Mathematics.*

Prerequisite: Mathematics 234-5-6.

A thorough study of the number system; the axioms; objectives; and classroom practices in algebra and geometry.

2336. *Infinite Series.*

Prerequisite: Mathematics 234-5-6.

Tests for convergence, transformation of series, multiple series, and their special properties, uniform convergence, differentiation and integration of series, functions defined by definite integrals.

2337-8-9. *Mathematics of Finance and Insurance.*

Prerequisite: Mathematics 137-8-9.

Interest, annuities, amortization, sinking funds, depreciation, bonds, building and loan associations, and the elements of actuarial science.

Required of all students of Business Administration in junior year. Business Administration students will receive advanced credit for this course.

PRIMARILY FOR GRADUATES

2430. *Finite Differences.*

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

431-2-3. Advanced Calculus.

Prerequisite: Mathematics 234-5-6.

Fundamental principles of Calculus; power series; partial differentiation; implicit functions; Gamma and Beta functions; line, surface, and space integrals; vectors; ordinary differential equations; Bessel functions; partial differential equations; Calculus of variation; and elliptic integrals.

434. Theory of Probability.

The elementary principles of the theory of probabilities, including a study of the permutations and combinations, Bernoulli's Theorem, Bayes' Theorem, distributive functions, continuous variables, averages, curve fitting, and correlation.

435-6. Mathematical Theory of Statistics.

Development of the series of Bernoulli, Poisson, and Lexis, and a study of their properties; a study of the methods of graduating frequency series as developed by Charlier and Pearson; the higher characteristics of frequency distributions, the theory of probable error, and the theory of correlation.

437-8-9. Actuarial Theory and Practice.

Prerequisite: Mathematics 234-5-6 and senior standing.

A detailed study of life annuities and assurances, the construction of premiums for varying benefits, theory of policy values and various methods and plans of reserve valuation, theory of dividends, total and permanent disability benefits, and double indemnity.

530. Introduction to Modern Analytical Geometry.

Prerequisite: Mathematics 234-5-6.

531-2-3. Differential Equations (Ordinary and Partial) and Applications.

Prerequisite: Mathematics 431-2-3.

534-5-6. Higher Algebra.

Prerequisite: Elementary Theory of Equations and the consent of the instructor.

Determinants, matrices, systems of linear equations, linear transformations and other similar topics.

537-8-9. Theory of Functions.

Prerequisite: Mathematics 431-2-3 and consent of instructor. Elementary functions for complex values of the variable, de-

velopment and application of the fundamental theorems of the analytic function theory.

ENGINEERING

All engineering students are required to take seven quarters of college mathematics. Freshman who have solid geometry should take 1310 and 1311 in the fall term, 1312 in the winter term, and 1313 in the spring term. Those who have not had solid geometry should take 100 and 141 in the fall term, 1310 in the winter term, 1312 in the spring term, and 1313 in either term of the summer quarter. The required sophomore and junior courses are 2321-22-23 and 3311. Courses 3312 and 3313 are required of all juniors except Textile and Architectural Engineers.

100. *Solid Geometry.*

Required, as an extra study, of freshmen in the School of Engineering who do not have admission credit in solid geometry.

141. *Algebra and Trigonometry.*

A four-hour course covering the same field as 1311 and enough trigonometry to prepare students not taking 1310 for the winter term course in Physics.

1310. *Trigonometry.*

Trigonometric functions of angles, logarithms, solution of triangles, circular measure.

1311-12. *College Algebra.*

A review of elementary algebra, quadratic equations, progressions, elementary theory of equations.

1313. *Topics in Algebra and Introduction to Analytic Geometry.*

Complex numbers with a review of trigonometric formulas, logarithms, determinants, the straight line.

2321. *Analytic Geometry.*

The conic sections, polar coordinates, translation and rotation of axes, elements of solid analytics.

2322-23. *Differential and Integral Calculus.*

The differentiation formulas, maxima and minima, rates, formal integration.

3311-12. Applications of the Calculus.

Areas, volumes, surfaces, centroids, moment of inertia, pressure, work, series, indeterminate forms, partial differentiation, maxima and minima in two variables.

3313. Differential Equations.

Enough of the theory of elementary differential equations to permit the solving of practical problems arising in engineering practice.

4311-12-13. Advanced Applied Mathematics.

Prerequisite: Liberal Arts Mathematics 431-2-3 or its equivalent.

Open to fourth and fifth year students. (a) Least Squares and Probability, (b) Theoretical Aeronautics, (c) Advanced Wing Theory, (d) Vector Analysis, (e) Fourier Series and Integral Equations. The schedule and outline of the course will be adapted to the needs of the students electing it.

AGRICULTURE

134-5-6. Mathematics for Students of Agriculture.

College algebra, trigonometry, graphs, business mathematics for students of Agriculture, averages and mixtures, elements of statistics.

Given to freshman students in the School of Agriculture.

HOME ECONOMICS

All Home Economics students must take 1300 in the winter term or the spring term of the freshman year.

1300. Mathematics for Students of Home Economics.

Selected topics from advanced arithmetic, algebra, and statistics, with special applications to problems arising in Home Economics.

ASTRONOMY

131-2-3. Popular Astronomy.

A non-mathematical introductory course designed to give general knowledge of the fundamental principles and methods of astronomy; essentially descriptive, with elementary mathematical applications.

134-5-6. Practical Astronomy.

Prerequisite: Trigonometry and consent of instructor.
Spherical astronomy; theory of the sextant, transit instrument, meridian circle, equatorial, and use of instruments.

DEPARTMENT OF MUSIC

Professor Waghorne. Instructor LeMaire

ORGANIZATIONS

Glee Club for Women; Mondays and Wednesdays, 4 to 4:45.

Glee Club for Men, Tuesdays and Thursdays, 4 to 4:45.

College Band, Mondays and Thursdays, 7:30 p. m.

College Orchestra, Wednesdays, 7:30 p. m.

In the school of Liberal Arts, only nine term hours in Music may be applied toward the Bachelor of Arts degree except as stated below.

ACADEMIC MUSIC

137-8-9. History and Appreciation of Music.

A non-technical course especially planned for those interested in music who have had no practical training in the art.

134-5-6. Elementary Music.

Ear training in tone and rhythm and the construction of melodies.

234-5-6. Harmony and Composition.

Prerequisite: 134-5-6.

334-5-6. Harmonic Counterpoint and Composition.

Prerequisite: 134-5-6.

434-5-6. Double Counterpoint; Canon; Fugue; Sonata.

Prerequisite: 234-5-6 and 334-5-6.

534-5-6. Conducting; Instrumentation; Score reading.

Prerequisite: 236 and 336.

PUBLIC SCHOOL MUSIC

Students may specialize in Public School Music, taking 134-5-

6; 137-8; 130; 230; 330; 234 (27 hours); or 134-5; 137-8; 130; 230 (18 hours).

A student intending to major in the subject must have all the courses listed above having the initial numbers of 1, 2, 3, and 5, and should have at least one year of Voice in college and also one year of Piano, or satisfy the instructor of his ability to read easy accompaniments, such as are to be found in school song books.

130. Elementary Methods.

Prerequisite: 134.

230. Intermediate Methods.

Prerequisite: 135.

330. High School Music.

Prerequisite: 136.

Public School Music students MUST attend Glee Club rehearsals without academic credit.

BAND MUSIC

131-2-3. Band Music. 2 recitation hours, 2 rehearsals.

Identical with Music 134-5, but covers in three terms what is covered in the regular work in two terms. To obtain credit, a student must meet the requirements of the band rehearsals.

231-2-3. Advanced Band Music.

Band instruments, their range and technique; transposition, ensemble, etc.

APPLIED MUSIC

Before credit can be given in Applied Music entrance requirements (State Examinations in theory and practice or the equivalent) must be met.

Fees for Applied Music must be paid to the individual instructors. See page 43 for list of instructors and fees.

Each year of Applied Music must be accompanied by one term of Academic Music, for which full credit will be granted.

VOICE

Freshman Year: Fundamentals of vocal production; Modern Songs.

NOTE: Public School Music 130, 230, 330 may be counted as Education.

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

Junior Year: Continuation of fundamentals; Arpeggios and chromatic scales. Operatic selections; modern songs.

Senior Year: Selected studies; interpretation; classical and modern songs; oratorio; recitatives and arias. Public recital.

PIANO

Freshman Year: Czerny; Burgmiller; Heller; Bach; Mendelssohn; Ensemble.

Sophomore Year: Czerny; Kullak Octave Studies; Heller; Bach—Two part Inventions; Mendelssohn; Ensemble playing.

Junior Year: Cramer; Kullak Octave Studies; Bach—Three part Inventions; Chopin Etudes; Ensemble playing.

Senior Year: Clementi; Bach—Well Tempered Clavichord; Chopin Etudes; Ensemble playing; Public recital.

VIOLIN

Freshman Year: Franz Wolfort (Last part Book II, Book III); Hirmalog Scale Studies; Mozes—Book I.

Sophomore Year: Mozes—Book 11; Sevcik (Double Stopping and Preparatory); Trill Studies; Hirmalog—Scale Studies and Shifting Exercises; Pieces; Beethoven, Schumann, Dvorak, etc.

Junior Year: Kreutzer Etudes; Beginning of Feorello Bowing Studies; De Beriot Concerto No. VII; Selected repertoire.

Senior Year: Kreutzer and Feorello, Continued; Rhode Caprices, Concertos of De Beriot, Bruch, etc.; Bach Sonatas, etc.; Selected repertoire, classic and modern, for recital.

DEPARTMENT OF PHILOSOPHY AND SOCIOLOGY

Professor Granbery

Inasmuch as philosophy and sociology are associated in one department, courses may be offered in this department to meet the requirements for a major, whether they be in philosophy or sociology or both.

PHILOSOPHY

231. *Introduction to Philosophy.*

Designed to meet the requirement in philosophy for the degree

of Bachelor of Arts, and as an introduction to the further study of philosophy.

232. Logic.

A continuation of Philosophy 231; a study of the scientific method, and of the control of the reflective processes, correct reasoning, induction and deduction, fallacies, experimentation, investigation, and verification.

233. Ethics.

A continuation of Philosophy 232, a study of the origin of ethical ideas, personal and social, and of present-day ethical problems.

331-2-3. History of Philosophy.

Development of philosophic thought from the beginning of Greek speculation to the present.

334-5-6. Aesthetics.

The philosophy of art and theories of beauty: a historical and systematic study of the principles upon which appreciation of art is based.

431-2-3. Philosophy of Religion.

The nature, development, and validity of religion; a comparative study of religions, and of religion in the light of contemporary thought.

SOCIOLOGY

As a general rule, the introductory course in sociology (231-2-3) should be taken as prerequisite to other courses in sociology. Students taking advanced courses in sociology should also have had some work in biology and psychology. All students of sociology should have had the freshman year in history.

231-2-3. Principles of Sociology.

An introductory course. Social origins and anthropology; social psychology.

331-2-3. Rural Sociology and Urban Problems.

Problems of the country and of the city.

334-5-6. Social Pathology.

A study of society in its abnormal aspects; social maladjustments; poverty, dependency, delinquency, crime, etc.

337-8-9. *History of Social Thought.*

Social ideas and theory before Sociology became a distinct science, and also more recent systematic social theory.

431-2-3. *Social Problems.*

An advanced course in the nature of a seminar, calling for research work and the study of specific problems, such as population, eugenics, immigration, labor problems, the woman movement, the liquor question, the family, war, economic justice, and democracy.

434-5-6. *Modern Social Prophets.*

Consideration of the social significance, philosophy, and message of modern thinkers who have expressed themselves in literature rather than in systematic form, such as Russian, Scandinavian, German, French, English, and American novelists, dramatists, and poets.

For advanced students only.

437-8-9. *Race Problems.*

A study of race differences, race relations, etc.

211-2-3. *The Social Program of the Church.*

A study of the social mission of the church and the ways in which different religious groups are undertaking and meeting their obligations to society.

PHYSICAL EDUCATION FOR MEN

Professor Freeland. Assistant Professors Higginbotham, Ingerton, Payne. Instructor Killin

The course in Military Training parallels the course prescribed by the government in its schedule of instruction for Infantry Reserve Officers Training Corps. Uniforms are worn.

101-2-3. *Military Training.*

Infantry, Close Order Drill, Command and Leadership, Military Courtesy, Military Hygiene and First Aid, and Physical Drill.

201-2-3. *Military Training.*

A continuation of 101-2-3, with the addition of target, subcaliber, range work, scouting and patrolling, musketry, interior guard duty, map reading and map making.

101-2-3. Physical Training.

Athletic games, calisthenics and corrective exercises. Students are encouraged in any line of activity in which they are interested. Intramural sports continue throughout the year. A special course is offered those students who are not able physically to take part in competitive games. Gymnasium suits and shoes are to be provided by the students.

201-2-3. Physical Training.

A continuation of 101-2-3.

PHYSICAL EDUCATION FOR WOMEN

Assistant Professors *Gilkerson and Riegel.

Assistant Doherty

The aim of the Physical Education work is to maintain general health and to provide activities that are physically wholesome.

Every student is given a medical examination at the beginning of each year. Excuse from Physical Education is granted in case of physical disability. Those who are unable to take regular work are given special work.

Every woman student is required to take Physical Education the first two years of her college course, unless excused by the College authorities.

A gymnasium fee of one dollar is required.

101. Physical Education for Women. 2 hours.

Gymnastics, marching, games, and folk dances. Health lectures.

201. Advanced Gymnastics, Elementary Nutrition and Playground Supervision.

Prerequisite: Physical Education 101.

301. Natural Dancing.

Prerequisite: Physical Education 101 and Physical Education 201.

*Leave of absence in 1928-29.

DEPARTMENT OF PHYSICS

Professors George, Mast, Abbitt. Associate Professors
Hill, Schmidt

The elementary courses in physics are designed to cover the fundamental physical laws and principles upon which are based the modern applications of science to the needs of human society. The aim is to learn something of the play of forces in the material world about us. More extended courses along special lines lead to astronomy, meteorology, weather forecasting, radio, television, X-rays, geophysics, biophysics, physical chemistry and to the various branches of engineering and applied sciences. Advanced studies in the field of modern physics lead into the realm of sub-atomic energy and the constitution of the universe.

141-2-3. *General Physics*. 3 class hours, 3 laboratory hours.

Required of all pre-medical students.

A general survey of the entire field of physics, designed to meet the requirements of the American Medical Association and the needs of those who wish to gain some knowledge of the fundamental principles of physics.

Fee: \$4.00.

144-5. *Freshman Engineering Physics*. 3 class hours, 3 laboratory hours.

A general survey course which is intended to give the student an insight into the field of physics and to prepare him for a more advanced and mathematical treatment.

Fee: \$3.00.

241-2-3. *Sophomore Engineering Physics*. 3 class hours, 3 laboratory hours.

Prerequisite: An elementary course in general college physics and freshman mathematics.

The general field of physics; designed especially for engineering students, but open to other students, who meet the requirements.

Fee: \$4.00.

233. *Physics. The Teaching of Physics*.

Designed especially for those who expect to teach Physics in high school. Credit is given in this course towards the education requirements for a teacher's certificate.

244-5. *General Agricultural Physics*. 3 class hours, 3 laboratory hours.

Fall and Winter terms.

Fee: \$3.00.

246. *Elementary Radio Communication*. 2 class hours, 4 laboratory hours.

Prerequisite: 141-2-3.

A review of electrical terms and the principles of simple electric circuits; the theory of crystals and vacuum tubes, oscillating circuits, radio and audio amplification, and radio devices in general.

Designed primarily for students who are not taking engineering subjects or who have not had the prerequisite mathematics and physics for Physics 343.

Fee: \$1.50.

Fall term.

321. *Laboratory Physics*. 6 laboratory hours.

Experiments selected to meet the needs of those students who desire more laboratory work than is given in the general physics.

Fee: \$1.50.

Fall term.

- 334-5. *Physics for Home Economics Students*. 2 class hours, 3 laboratory hours.

Principles of heat, electricity, mechanics, light and sound, with special reference to their application to household appliances.

Fee: \$3.00.

341. *Elementary Light*. 3 class hours, 3 laboratory hours.

Prerequisite: Physics 141-2-3.

Reflection, refraction, diffraction and polarization.

Fee: \$1.50.

Fall term.

- 336-7. *Advanced Practical Light*. 6 laboratory hours.

Prerequisite: Physics 141-2-3 and Mathematics 234-5-6.

Same as Physics 341, but with a greater number of experiments and more attention to precision.

Students planning to take this course should not elect Physics 341.

Fee: \$3.00.

Winter and Spring terms.

- 331-2. *Electrical Measurements*. 6 laboratory hours.

Prerequisite: Physics 141-2-3 and Mathematics 234-5-6.

Fall and Winter terms.

Fee: \$3.00.

- 338-9. *Electricity and Magnetism*. 3 class hours.

Prerequisite: Physics 141-2-3.

Fall and winter terms.

324-5-6. *Problems in Physics.* 2 class hours.

Prerequisite: Physics 141-2-3 or Physics 144-5.

Intended to give more thorough preparation for advanced work than is given in Physics 141-2-3. Recommended for students who expect to teach Physics in high schools.

342. *Practical Mechanics.* 3 class hours, 3 laboratory hours.

This is a more thorough course than that offered in general physics, which is a prerequisite to this course.

Fee: \$1.50.

344. *Heat.* 3 lectures and recitations, 1 laboratory period.

Prerequisites: Physics 141-2-3 and Mathematics 234-5-6.

Fee: \$1.50.

Fall Term.

441-2. *Thermonic Vacuum Tubes.* 3 class hours, 3 laboratory hours.

Prerequisite: Physics 141-2-3 and Mathematics 234-5-6.

A preliminary study of the electron and certain electrical phenomena; the vacuum tube as a rectifier, an amplifier, an oscillation generator, a detector, etc.

Fee: \$3.00.

433. *Elementary Electron Theory.* 3 class hours.

Prerequisite: Physics 331-2 or 338-9 or a course in radio, and Mathematics 234-5-6.

A study of the vacuum tube, cathode rays, radioactivity, X-Rays, photoelectric effect, ionization and radiation potentials, quantum theory, Bohr theory, and the Compton Effect.

Spring term.

421-2-3. *Theoretical Mechanics.* 2 class hours.

Prerequisite: Physics 342, or equivalent, and mathematics 234-5-6.

**531-2. *Introduction to Theoretical Physics.* 3 class hours.
class hours.**

Prerequisite: Two courses in physics and Mathematics 234-5-6.

Mathematical derivations and proofs of the fundamental laws and postulates of dynamics, electrodynamics, thermodynamics, and hydrodynamics.

Fall and Winter terms.

533-4-5. *Mathematical Theory of Light.* 3 class hours.

Prerequisite: Physics 336-7 or Physics 341 and Mathematics 234-5-6.

Geometrical and physical optics. Introduction to spectrum analysis.

Credit will not be given for more than one of the following courses since they are more or less parallel:

Physics 141-2-3, Physics 144-5, Physics 244-5, Physics 334-5. The same holds true for the two courses: Physics 341 and Physics 336-7.

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

DEPARTMENT OF SPANISH

Professor Qualia. Associate Professors F. Whatley, W. A. Whatley. Assistant Professor Strehli. Instructor Gates.

131-2-3. *A Beginning Course.*

Grammar, reading and conversation.

231-2-3. *Grammar, Reading, Composition and Conversation.*

Prerequisite: Spanish 131-2-3, or two units of high school Spanish.

331-2-3. *Contemporary Literature.*

Prerequisite: Spanish 131-2-3, and 231-2-3, or three or four units of high school Spanish.

An outline of Spanish literature from the beginning of the Romantic Movement to the present. Reading of representative novels, dramas and lyrics. Collateral reading and composition based on readings. Conducted chiefly in Spanish.

334-5-6. *Commercial Spanish.*

Prerequisite: Same as for Contemporary Literature.

A survey of the history, geography, literature, customs, and economic conditions of Spanish-American countries. Commercial

and scientific Spanish and correspondence. Conducted in Spanish.

Designed for engineers, pre-law, and business administration students.

Spanish 331-2-3 and Spanish 334-5-6 may not both be counted toward a degree.

431-2-3. The Modern Novel.

Prerequisite: Spanish 331-2-3, or the equivalent.

A study of certain nineteenth century novels representing the various tendencies and regions. Lectures. Written reports. Conducted chiefly in Spanish.

531-2-3. The Modern Drama.

Prerequisite: Spanish 331-2-3, or its equivalent.

A study of the drama from the beginning of the Romantic Movement to the present.

534-5-6. The Drama of the Golden Age.

A study of the drama of the seventeenth century. Reading of representative plays, lectures, discussion, collateral reading, reports.

Prerequisite: Spanish 331-2-3, or its equivalent.

631-2-3. A Survey of Spanish Literature.

Prerequisite: Spanish 331-2-3.

The history of Spanish Literature from the twelfth to the nineteenth century. Emphasis upon the principal movements and the works of outstanding writers. Readings, lectures, and written reports. Conducted chiefly in Spanish.

Especially recommended for students who expect to teach Spanish.

634. Teachers' Course in Methods of Teaching Spanish.

Preparation for teaching Spanish in High School. Scientific and practical methods with as much practice work as possible.

Prerequisite: Spanish 331, 332, 333, and one course in Education.

DEPARTMENT OF SPEECH

Professors Pirtle, Pendleton. Instructor Cox

131. Principles of Speech.

A course in general speech education, to give practical training in public speaking.

*133. Voice and Diction.**134-5-6. Argumentation and Debate.*

Argumentation, analysis, evidence, persuasive speaking, and brief-drawing. Class discussion and debate upon questions of present-day interest.

Open to freshmen upon recommendation of instructor.

134 and 135 must be completed before credit for graduation will be given. In the case of seniors, credit may be given for 134, provided a complete year of work in speech is taken.

031-2-3. Technique of Dramatic Art.

Stage technique, make-up, and plays for class production; principles of dramatic interpretation and characterization. Recommended for all students planning to teach. 031 and 032 must be completed before credit for graduation is given.

231-2. Oratory.

Prerequisite: Speech 131-2.

Methods of speech preparation and presentation, with emphasis on the qualities and structure of an effective address; preparation of outlines and the presentation of formal speeches and addresses.

233. Technique of Reading.

Prerequisite: Speech 133.

Theory and practice; expressive reading of different types of literature. Emphasis on Shakespeare.

234-5-6. Stagecraft and Direction.

Prerequisite: Speech 031-3.

Historical survey of stagecraft; a study of plans for the construction of the modern auditorium and stage; design and construction of stage models and sets.

331-2. Advanced Oratory.

Prerequisite: Speech 131-2-3, 231-2.

Critical analysis of oratorical masterpieces, with study of notes thereon; written outlines and reports. Consideration of the history of oratory with written reports on collateral reading.

333. Advanced Argumentation.

Prerequisite: Speech 134-5-6.

334-5. Phonetics.

Phonetics and its application to speech correction.

336. Speech Correction and the Clinic.

Voice mechanism; speech difficulties, and the current methods of diagnosis and treatment.

Courses 334-5-6 are primarily for juniors and seniors.

Required of all majors in Speech.

431. Teachers' Course.

Methods of teaching speech. Emphasis upon the teaching of the fundamental course.

Required of all majors in Speech.

Spring term.

EXPRESSION

131-2-3. Private and Class Work and Body Training Program.

The technique of voice and body relative to practical living as well as platform work. A general survey of the field as preparation for advanced work.

231-2-3.

Prerequisite: Expression 131-2-3.

A continuation of Expression 131-2-3 with greater specification. The science underlying the principles involved. Pantomime.

331-2-3.

Prerequisite: Expression 131-2-3, 231-2-3.

The dramatic element in interpretation.

Each person in the Expression Department is required to appear in a public performance during the year. Each person in 331-2-3 is required to prepare and give a public recital during the Spring term.

A diploma is offered for the successful completion of three years of Expression and certain other required courses in Speech. Students planning to take the Diploma Course should consult the head of the department.

REQUIREMENTS FOR THE DIPLOMA COURSE IN EXPRESSION

SPEECH—Expression 131-2-3, 231-2-3, 331-2-3—27 term hrs.

Speech 131 (Principles of Speech) _____ 3 term hrs.

Technique of Dramatic Art 031-2 _____ 6 term hrs.

Stagecraft and Direction 234-5 _____ 6 term hrs.

Phonetics and Speech Correction 334-5	6 term hrs.
Argumentation and Debate 134-5	6 term hrs.

General Requirements—

English 131-2-3; 231-2-3: Electives 9 hrs.	27 term hrs.
Psychology 230-1-2	9 term hrs.
Psychology or Education	9 term hrs.
Foreign Language	18 term hrs.
Science (The Human Body) 134-5-6	9 term hrs.
Two years of Physical Education	
Total	126 term hrs.

DEPARTMENT OF EXTENSION

J. F. McDonald, Director

The Texas Technological College is not confining its teaching activities to the daily routine of the campus but through the Department of Extension is serving a large constituency who cannot attend the regular classes.

DIVISIONS

The extension service includes: (1) correspondence instruction, (2) class work in centers away from the campus, (3) night classes on the campus, and (4) group-study instruction for clubs, societies, etc. Correspondence courses are offered in many departments of the schools of Liberal Arts, Agriculture, and Home Economics. Extension courses, given in centers away from the campus, include Economics and Business Administration, Education, English, Government, History, Home Economics, and Mathematics. Night classes on the campus include courses in the schools of Liberal Arts, Agriculture, and Home Economics. Laboratory courses are available, by night classes.

OBJECTIVES

The extension service is designed to meet the needs of the following classes of students: (1) those who desire to work toward a degree or a teacher's certificate, (2) those who desire to prepare for college entrance, (3) those who desire to remove deficiencies of college entrance, (4) those who desire to take certain subjects which are not available in the regular daily schedule of the college, and (5) those who desire to take certain subjects for cultural or practical purposes, whether they can or cannot meet the college entrance requirements.

REGULATIONS

1. One-fourth of the work required for a degree and not over one-half of the work required for teachers' certificates may

be done by correspondence study. More work may be done through extension classes.

2. The registration fee for each extension course (one-third of a college course) is \$10.00, payable in advance, and is not refunded.
3. Students who desire college credits must meet college entrance requirements. But students over twenty-one may enroll on the basis of individual approval.
4. A resident student may register for work in the Department of Extension only with the approval of his dean.
5. Persons who are regularly employed, e. g. teachers, are limited to an average of two extension courses each three months.
6. In correspondence courses, a self-addressed stamped envelope with sufficient stamps must be enclosed each time for the return of the lesson sheets to the student.
7. Correspondence courses should be completed within three months. They may not be completed in less than thirty days, nor in over twelve months. They must be begun within three months, or be forfeited. Extension class courses run three months.
8. If college credit is to be given, the course must be concluded by a final examination.
9. The examinations must be taken under the supervision of the instructor, or of a county superintendent, or city superintendent, or principal of a high school.
10. Textbooks may be purchased from the Tech College Bookstore, Lubbock, Texas, or from the publishers.
11. Library books may be obtained from the College Library upon depositing \$5.00 to cover loss or damages of books. The deposit less legitimate charges will be returned.

CORRESPONDENCE COURSES OFFERED

Subjects numbered from 100 to 200 are freshman courses; from 200 to 300, sophomore courses; and from 300 up, advanced courses, as a rule. The college entrance courses are listed at the close of the college courses. For a full description of the college courses, including the prerequisites, see the corresponding numbers and titles under the respective Departments of the College, in other parts of this catalogue.

Agriculture: Agricultural Economics and Farm Management.

- 231. Principles of Agricultural Economics.
- 332. Principles of Agricultural Marketing.
- 333. Cooperative Marketing.
- 431. Land Economics.
- 434. Farmer Movements in America.

Agriculture: Agronomy.

- 101. Soil Management.
- 102. Farm Crops.
- 103. Seed Production and Marketing.
- 131. The Fundamentals of Crop Production.*
- 331. Forage Crops.*
- 235. Soils.

Agriculture: Animal Husbandry.

- 131. Types, Market Classes, and Breeds of Beef Cattle and Sheep.**
- 132. Types, Market Classes, and Breeds of Hogs and Horses.**
- 133. Types and Breeds of Dairy and Dual-purpose Cattle.**
- 231. Farm Poultry.**
- 232. Development of Breeds of Livestock.
- 341. Animal Nutrition.
- 342. Live Stock Feeding.

Agriculture: Dairy Manufactures.

- 231. Principles of Dairying.*
- 232. Cheese Making.*
- 330. The Farm Dairy.*
- 331, 332, 333. Market Milk.*
- 323. Butter Making.*
- 335. Butter Making.*

Agriculture: Horticulture.

- 141. Plant Propagation.*
- 232. Vegetable Gardening.*
- 331. Grapes and Small Fruits.*
- 434. Citriculture.
- 337. Landscape Appreciation.

Biology.

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

In courses marked thus (*) laboratory equipment is required; in courses marked thus (**) the laboratory work must be done in the College.

Agronomy 101, 102, 103 are non-credit courses, open to all persons. Students who cannot meet the full requirements of the other courses, but who show evidence that they can profit by them, may enroll for work in them, as non-credit courses.

Biology: Botany.

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

Chemistry.

- 234, 235, 236. The principles of Chemistry. Lecture Course.
230. Methods of Teaching Chemistry.

Economics and Business Administration.

- 231, 232, 233. Introduction to Economics.
234, 235, 236. Introduction to Accounting.
3313, 3314, 3315. Money, Banking, and Business Cycles.
337, 338, 339. Administration of Finance.
3316-17-18. Corporation Accounting and Budgetary Control.
3316, 3317, 3318. Corporation Accounting and Budgetary Control.
334, 335. Commercial Law.
331, 332, 333. Introduction to Business Administration.
3321, 3322, 3323. Industrial Management.
3310, 3311, 3312. Market Administration.

Education.

131. Introduction to Education.
132. Classroom Organization and Control.
133. Methods of Teaching in the Elementary Grades.
230. Rural Education.
232. History of Education.
233. Measurement in Education.
234. Secondary Education.
235. The High School Curriculum.
236. Methods of Teaching in the High School.
237. Kindergarten-Primary Education.
238. Primary Education (continued).
331. Principles of Education.
3311. Advanced Kindergarten and Primary Education.
332. High School Problems.
335. The Junior High School.
337. Classroom Tests.
338. Teachers' Problems.
339. Sociological Problems of Education.
431. Directing Study.

- 432. Texas Educational System.
- 434. Education in the United States.
- 436. Public School Administration.

Education: Psychology.

- 230. Introduction to Psychology.
- 231. Educational Psychology.
- 331. Child Psychology.
- 335. The Psychology of Adolescence.
- 338. Fundamentals of Educational Statistics.

English: Freshman and Sophomore.

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

English: Journalism.

- 134. Elementary News Writing.
- 135. Special Feature Articles.
- 136. News Editing.
- 237. Management of the Newspaper.
- 238. Editorial Writing.
- 239. History of American Journalism.

English: Advanced English.

- 326. Contemporary English Poetry.
- 334, 335, 336. American Drama.
- 337. Advanced Grammar.
- 338. American Poetry: Bryant to Longfellow.
- 339. American Poetry: Whittier to Whitman.
- 432. Shakespeare and the Background.
- 433. Shakespeare and Criticism.
- 427. Browning.
- 428. Tennyson.
- 439. Contemporary Drama, Ibsen to Shaw.
- 530. The Short Story: American and English.
- 532. The English Novel.
- 533. Types of English and Foreign Fiction.
- 536. Contemporary English and American Essays.
- 3310. Methods of Teaching English in High Schools.

French.

- 131, 132, 133. Beginners' French.
- 231, 232, 233. Grammar, Reading, and Composition.

German.

- 131, 132, 133. Beginners' German.
- 231, 232, 233. Grammar, Reading, and Composition.

Government.

- 131, 132, 133. American Government.
- 220. Parliamentary Law.
- 234. Introduction to Political Science.
- 235, 236. Modern Governments.
- 330. Business Law.
- 331, 332. American Government, for Juniors and Seniors.
- 335, 336. American Political Parties.

History.

- 131, 132, 133. History of Civilization.
- 134, 135, 136. English History.
- 231, 232, 233. History of the United States.
- 234, 235, 236. History of England and the British Empire.
- 237, 238, 239. History of the Two Americas.
- 530. Methods of Teaching History.

Home Economics: Clothing.

- 131. Elementary Textiles.
- 332. Children's Clothing.

Home Economics: General.

- 332. Household Administration.
- 431. Family Relationships.
- 333. Child Care.

Home Economics: Foods and Nutrition.

- 133. Foods.

Latin.

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

Mathematics.

- 100. Solid Geometry.
- 131. College Algebra.

- 132. Plane Trigonometry.
- 133. Introduction to Analytical Geometry.
- 231. Analytical Geometry.
- 232. Advanced Algebra.
- 233. Advanced Algebra. (Continued.)
- 230. Methods of Teaching Arithmetic.
- 334. Methods of Teaching Algebra.
- 335. Methods of Teaching Geometry.
- 234. Differential Calculus.
- 235. Differential Calculus (Continued).
- 236. Integral Calculus.

Music.

- 134, 135, 136. Elementary Music.
- 234. Elementary Harmony.
- 334. Harmonic Counterpoint.

Physics.

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

Spanish.

- 131, 132, 133. Beginners' Spanish.
- 231, 232, 233. Grammar, Reading, and Composition.
- 331, 332, 333. Contemporary Literature.

CORRESPONDENCE COURSES TO MEET COLLEGE ENTRANCE
REQUIREMENTS

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

English.

- American Literature and Composition, 1 unit.
- English Literature and Composition, 1 unit.

History and Civics.

- Ancient History, 1 unit.
- American History, 1 unit.
- Civics, 1 unit.
- English History, 1 unit.
- Modern History, 1 unit.

Mathematics.

Algebra 1: A Beginners' Course, 1 unit.

Algebra 2: A Continuation of Algebra 1, 1 unit.

Plane Geometry 1: A Beginners' Course, $\frac{1}{2}$ unit.

Plane Geometry 2: Plane Geometry Completed, $\frac{1}{2}$ unit.

Solid Geometry 3: Required of all Engineering Students, $\frac{1}{2}$ unit.

Plane Geometry 1 and 2 must be taken in order to be accredited. Other college entrance courses may be available upon special request.

EXTENSION CLASS INSTRUCTION

Extension classes will be organized in centers, upon request of a sufficient number. For the establishment of centers near the College, a minimum of fifteen students will be required; for centers more remote, a larger number, depending on the distance. Resident credit is granted. Both graduate and undergraduate courses are available. Fee: \$10.00. Those interested in securing centers should communicate with the Director of Extension.

NIGHT CLASSES ON THE COLLEGE CAMPUS

Night classes, to meet once or twice a week, will be organized in the College building, 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 resident credits, and will satisfy degree or certificate purposes. The fee for any subject will be \$10.00 per term. A reasonable laboratory fee will be charged for the laboratory sciences.

GROUP-STUDY INSTRUCTION

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

FURTHER INFORMATION

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

SCHOOL OF ENGINEERING

WILLIAM J. MILLER, DEAN

The importance of the School of Engineering in the Texas Technological College is stressed in the first section of the bill by which the Thirty-eighth Legislature established this institution. It is here pointed out that the commercial development of our State depends largely upon the opportunities for students to obtain thorough training in engineering and manufacturing fields.

PURPOSE

The aim and purpose of the School of Engineering is to turn out men who are thoroughly grounded in the fundamentals of all engineering work and specialized in one particular line only to the extent that experience appears to demand as a minimum. In other words, the course of study in the School of Engineering is planned with the view of giving the student the essential basic training which he cannot get after graduation and leaving a large part of his specialization to his later professional employment. Experience has shown this type of training to produce the most successful engineers.

One of the essentials of an engineer is character. Recognizing this fact, the engineering instruction at all times aims to emphasize the qualities of honesty, loyalty, thoroughness and industry. Engineering has taken its rightful place as one of the learned professions, and for this reason the course of study is designed to foster a spirit of culture and ethics. From the foregoing it may be summarized that the ideal product of the Engineering School is a logical thinker who is a man of character, culture, and professional attitude with capacity and love for work, and with a substantial knowledge of facts in his chosen field.

BUILDINGS

The first unit of the Textile Building was completed at the opening of the College. It is a two-story building, about 60x220 feet, and cost with its equipment of modern textile machinery approximately \$250,000.00.

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

The first unit of the main Engineering Building was built during the school year of 1927-28 and was ready for use at the

opening of the 1928-29 session. The unit cost approximately \$250,000.00, and has a floor area of about 52,000 square feet. It includes offices for the Engineering faculty, laboratories and class rooms for the departments of Architectural, Civil, Electrical, and Mechanical Engineering and Engineering Drawing.

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

FIELD FOR GRADUATES

The field open to the engineering graduate is too broad and the opportunities which it presents are too numerous to be presented in the space of this bulletin. Engineering has been defined as "The art of directing the great sources of power in nature for the use and convenience of man," which indicates employment in development of natural resources, manufacturing and commerce.

The engineering student upon graduation usually spends a period of time in apprentice or subordinate positions, securing experience and preparing himself for the more important work of the executive, the designer, the consulting engineer, the teacher, or the operator, etc. For a number of years the demand for engineering graduates by the industries has considerably exceeded the supply.

Engineering training is becoming more and more recognized as a desirable preparation for a general commercial career, as it develops a mathematical and analytical type of mind, and demands systematic and methodical work. For this reason many engineering graduates eventually hold important executive positions.

ADMISSION REQUIREMENTS

In addition to the general College requirements given on page 30, fifteen high school units as given below are required for admission to the School of Engineering:

Subject	Units
English	3
*Mathematics	3
Algebra 2.	
Plane Geometry 1.	
One Foreign language or two units either in laboratory sciences or in laboratory sciences and solid geometry and trigonometry	2
Social Sciences (at least one of which must be History)	2
Elective Units	5
From any accredited high school subject not more than four of which may be vocational subjects.	
Total	15

*If solid geometry is not offered as an admission unit, it must be completed before the Sophomore year. No college credit is given for solid geometry. It is urged that prospective engineering students take this subject in High School.

REGULATIONS

The regulations governing the students in the School of Engineering are essentially the same as those applying to students in the other schools of the College. See page 34.

TERM HOUR

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

REQUIREMENTS FOR GRADUATION

UNIFORM FRESHMAN YEAR

All Engineering students are required to take identical work throughout the freshman year. This is done in order that the student, before he chooses his professional course, may have the opportunity of becoming more familiar with the courses of instruction and the possibilities after graduation in the various branches of engineering. To aid the student in the proper selection of his professional work, lectures on the scope and opportunities of the various branches of the profession will be given by practicing engineers. Motion pictures of the works and achievements of engineers are also shown for this purpose.

DEGREES

The degree of Bachelor of Science in Architectural, Civil, Electrical, Geological, *Mechanical, and Textile Engineering will be conferred upon students who satisfactorily complete the requirements of the respective curricula as outlined on the following pages.

Electives in any curriculum must be approved by the Head of the Department in which the student seeks a degree.

*Chemical Engineering is offered as a division of Mechanical Engineering and leads to the degree of Bachelor of Science in Mechanical Engineering (Chemical Engineering option).

**UNIFORM FRESHMAN YEAR
FOR ENGINEERING STUDENTS**
(Who have had solid geometry)

Fall Term			Winter Term			Spring Term		
Subject	Page	Term Hours	Subject	Page	Term Hours	Subject	Page	Term Hours
Eng. 121	Composition 78	3	Eng. 132	Composition 78	3	Eng. 133	Composition 78	3
*Chem. 141	Elementary 62	4	Chem. 142	Elementary 62	4	†Chem. 143	Elementary 62	4
Math. 1310	Trigonometry 99	3	Math. 1312	Algebra 99	3	Math. 1313	Analytics 99	3
Math. 1311	Algebra 90	3	Phys. 144	Eng. Physics 107	4	Phys. 145	Eng. Physics 107	4
E. Dwg. 121	Eng. Drawing 144	2	E. Dwg. 122	Eng. Drawing 144	2	E. Dwg. 123	Eng. Drawing 144	2
P. T. 101	Physical Training 106	1	P. T. 102	Physical Training 106	1	P. T. 103	Physical Training 106	1
		16			17			17

FOR ENGINEERING STUDENTS
(Who have not had solid geometry)

Fall Term			Winter Term			Spring Term		
Subject	Page	Term Hours	Subject	Page	Term Hours	Subject	Page	Term Hours
Eng. 131	Composition 78	3	Eng. 132	Composition 78	3	Eng. 133	Composition 78	3
*Chem. 141	Elementary 62	4	Chem. 142	Elementary 62	4	†Chem. 143	Elementary 62	4
Math. 141	Elemen. Functions 99	4	Math. 1310	Trig. 99	3	Math. 1312	Algebra 99	3
Math. 100	Solid Geom. 107	0	Phys. 144	Eng. Physics 107	4	Phys. 145	Eng. Physics 107	4
P. T. 101	Physical Training 106	1	E. Dwg. 131	Eng. Drawing 144	3	E. Dwg. 132	Eng. Drawing 144	3
		12+	P. T. 102	Physical Training 106	1	P. T. 103	Physical Training 106	1
					18			18

*Geological Engineering students will take Geology 141, 142, 143 instead of Chemistry in Freshman year.

†Textile Engineering students will take Chemistry 153 instead of Chemistry 143.

ARCHITECTURAL ENGINEERING

Fall Term				Winter Term				Spring Term			
Subject	Page	Term Hours		Subject	Page	Term Hours		Subject	Page	Term Hours	
2310 Lit. and Comp.	78	3		2311 Lit. and Comp.	78	3		2312 Tech. Writing	78	3	
2311 Eng.	107	4		2312 Eng. Phys.	107	4		2313 Soph. Eng. Phys.	107	4	
2312 Math.	99	3		2313 Math.	99	3		2314 Calculus	99	3	
2313 E. Draw.	145	3		2314 Soph. Eng. Phys.	107	4		2315 Calculus	134	3	
2314 Descriptive Geom.	145	3		2315 Soph. Eng. Phys.	107	4		2316 Object Drawing	135	2	
2315 Object Drawing	135	2		2316 Object Drawing	135	2		2317 Object Drawing	135	2	
2316 Arch.	134	3		2317 Arch.	134	3		2318 Elements of Arch.	134	3	
2317 Arch.	134	3		2318 Arch.	134	3		2319 Elements of Arch.	134	3	
2318 P. T.	106	1		2319 P. T.	106	1		2320 Phys. Training	106	1	
		19				19				19	
Total - - - 19				Total - - - 19				Total - - - 19			
Freshman Year (See p. 125)				Sophomore Year				Junior Year			
331 Applied Mechanics	140	3		332 Applied Mechanics	140	3		333 Applied Mechanics	140	3	
332 Surveying	139	3		333 Structures	140	3		334 Structures	140	3	
333 Elements	140	3		334 Elements	143	3		335 Elements	143	3	
334 Arch. Design	134	3		335 Arch. Design	143	3		336 Arch. Design	143	3	
335 Grade I	134	3		336 Grade I	134	3		337 Grade I	134	3	
336 Pencil Rendering	135	2		337 Water Color	135	2		338 History of Arch.	137	2	
337 History of Arch.	137	2		338 History of Arch.	137	2		339 Working Draw. & Specifications	138	3	
338 Building Materials and Construction	138	3		339 Working Draw. & Specifications	138	3		340 Working Draw. & Specifications	138	3	
		19				19				19	
Total - - - 19				Total - - - 19				Total - - - 19			
Senior Year				Senior Year				Senior Year			
431 Reinforced Concrete Theory	141	3		432 Reinforced Concrete Theory	141	3		433 Reinforced Concrete Theory	141	3	
432 Structures	141	4		433 Structures	141	3		434 Heating and Ventilation	153	3	
433 M. E.	151	3		434 Heating and Ventilation	153	3		435 Principles	153	3	
434 M. E. Equipment	137	2		435 Principles	153	3		436 Bldg. Sanitation	138	2	
435 History of Arch.	137	2		436 Bldg. Sanitation	138	2		437 Estimating	138	1	
436 Principles	165	3		437 Estimating	138	1		438 Business Practice	138	1	
437 One or more approved Electives	2 to 4	2 to 4		438 Business Practice	138	1		439 History of Arch.	137	2	
		17		439 History of Arch.	137	2		440 One or more approved Electives	2 to 4	2 to 4	
Total - - - 17				Total - - - 17				Total - - - 15			

ELECTRICAL ENGINEERING

Spring Term				Winter Term				Fall Term			
Subject	Page	Term Hours		Subject	Page	Term Hours		Subject	Page	Term Hours	
*Eng. 2310	Lit. and Comp.	78		*Eng. 2311	Lit. and Comp.	78		*Eng. 2312	Technical Writing	78	
Phys. 2311	Soph. Eng. Phys.	107	3	Phys. 2312	Soph. Eng. Phys.	107	3	Phys. 2313	Soph. Eng. Phys.	107	3
Math. 2321	Analytic Geom.	139	3	Math. 2322	Calculus	99	3	Math. 2323	Calculus	99	3
C. E. 2330	Surveying	139	3	Speech 121	Principles	111	3	Chem. 339	Power Plant	64	3
E. Dwg. 231	Descriptive Geom.	145	3	E. Dwg. 232	Machine Drawing	145	3	M. E. 221	Problems	149	3
M. E. 211	Pattern Shop	148	1	M. E. 212	Pattern Shop	148	1	E. E. 231	Principles	142	3
P. I. 201	Physical Training	106	1	P. I. 202	Physical Training	106	1	P. I. 203	Physical Training	106	1
		18				18				19	
Junior Year				Senior Year				Senior Year			
E. E. 321	Principles	143	3	E. E. 322	Principles	143	3	E. E. 323	Principles	143	3
E. E. 321	Laboratory	142	2	E. E. 322	Laboratory	142	2	E. E. 323	Laboratory	142	2
C. E. 331	Applied Mechanics	140	3	C. E. 332	Applied Mechanics	140	3	C. E. 333	Applied Mechanics	140	3
M. E. 334	Heat Engineering	151	3	M. E. 335	Heat Engineering	151	3	M. E. 336	Heat Engineering	151	3
Math. 3311	Adv. Calculus	100	3	Math. 3312	Adv. Calculus	100	3	Math. 3313	Diff. Equations	100	3
C. E. 439	Hydraulics	141	3	C. E. 439	Laboratory	151	2	C. E. 439	Laboratory	151	2
M. E. 311	Machine Shop	149	1	M. E. 312	Machine Shop	159	1	M. E. 313	Machine Shop	149	1
		18				17				18	
E. E. 431	A. S. Machines	144	3	E. E. 432	A. C. Machines	144	3	E. E. 433	A. C. Machines	144	3
E. E. 421	A. C. Laboratory	143	2	E. E. 422	A. C. Laboratory	143	2	E. E. 423	A. C. Laboratory	143	2
E. E. 434	Applications	144	3	E. E. 435	Applications	144	3	E. E. 436	Transmission	144	3
Eco. 231	Principles	65	3	Eco. 232	Principles	65	3	Eco. 233	Principles	65	3
Phys. 331	Elec. Measurements	108	3	Phys. 332	Elec. Measurements	108	3	Gov. 330	Bus. Law	89	3
M. E. 427	Dynamics	152	2	C. E. 312	Materials Laboratory	140	1	E. E. 410	Seminar	143	3
Elective		3		Elective		3		Elective		3	
		19				18				18	

*Or English 231, 232 and 233.

GEOLOGICAL ENGINEERING

Fall Term				Winter Term				Spring Term			
Subject	Page	Term Hours		Subject	Page	Term Hours		Subject	Page	Term Hours	
141 Elementary Chem.	62	4		142 Elementary Chem.	62	4		143 Elementary Chem.	62	4	
241 Soph. Eng. Phys.	107	4		242 Soph. Eng. Phys.	107	4		243 Soph. Eng. Phys.	107	4	
281 Detrm., Mineralogy	84	3		282 Detrm. Mineralogy	84	3		283 Elemen. Eco. Geol.	84	3	
2321 Analytic Geometry	99	3		2322 Calculus	99	3		2323 Calculus	99	3	
2310 Lit. and Comp.	78	3		2311 Lit. and Comp.	78	3		*Eng. 2312 Technical Writing	78	3	
201 Physical Training	106	1		202 Physical Training	106	1		203 Physical Training	106	1	
		18				18				18	
				Summer							
				†Geol. 290 Field Geol.	147	9					
				Junior Year							
241 Plane Survey	139	4		242 Plane Survey	139	4		243 Plane Survey	139	4	
384 Optical Min.	85	3		335 Optical Min.	85	3		336 Optical Min.	86	3	
Geol. 337 Invert. Pale'tology	85	3		Geol. 338 Invert. Pale'tology	85	3		Geol. 339 Invert. Pale'tology	85	3	
Math. 3311 Calculus	100	3		E. Dwg. 329 Descrip. Geom.	145	3		Geol. 330 Geologic Mapping	85	3	
C. E. 331 Applied Mech.	140	3		C. E. 332 Applied Mech.	140	3		Geol. 333 Applied Mech.	140	3	
*Geol. 311 Geol. of Texas	85	1		Geol. 312 Geol. of Texas	85	1		Geol. 313 Geol. of Texas	85	1	
		17		C. E. 312 Materials Lab.	140	1		C. E. 313 Cement Lab.	140	1	
						18				18	
				Senior Year							
431 Adv. Geol.	85	3		432 Adv. Geol.	85	3		433 Adv. Geol.	85	3	
Geol. 434 Ore Deposits	85	3		Geol. 435 Petroleum Geol.	86	3		Geol. 436 Petroleum Geol.	86	3	
Eco. 231 Principles	65	3		Eco. 232 Principles	65	3		Eco. 233 Principles	65	3	
C. E. 334 Surveying	140	3		Speech 131 Principles	110	3		Gov. 330 Business Law	89	3	
Geol. 437 Advanced Paleon.	86	3		Geol. 438 Advanced Paleon.	86	3		Geol. 439 Advanced Paleon.	86	3	
Elective		3		Elective		3		Elective		3	
		18				18				18	

*Or English 231, 232 and 233.

†May be taken as senior elective.

MECHANICAL ENGINEERING

Fall Term				Winter Term				Spring Term			
Subject	Page	Term Hours		Subject	Page	Term Hours		Subject	Page	Term Hours	
*Eng. 2310	Lit. and Comp.	78	3	*Eng. 2311	Lit. and Comp.	78	3	*Eng. 2312	Technical Writing	78	3
Phys. 2321	Soph. Eng. Phys.	107	4	Phys. 2322	Soph. Eng. Phys.	107	4	Phys. 2323	Soph. Eng. Phys.	107	4
Math. 2321	Analytic Geom.	99	3	Math. 2322	Calculus	99	3	Math. 2323	Calculus	99	3
Speech 131	Principles	139	3	M. E. 221	Problems	149	2	M. E. 222	Mechanism	149	2
E. Draw. 231	Descript. Geom.	145	3	M. E. 232	Machine Drawing	145	3	M. E. 230	Surveying	139	3
M. E. 225	Pattern Shop	149	2	M. E. 226	Fdy. and Forge	149	2	M. E. 227	Machine Shop	149	2
P. T. 201	Physical Training	106	1	P. T. 202	Physical Training	106	1	P. T. 203	Physical Training	106	1
			19				18				19
Freshman Year				Junior Year				Senior Year			
Sophomore Year				Senior Year				Senior Year			
								</			

MECHANICAL ENGINEERING
(Chemical Engineering Option)

Fall Term			Winter Term			Spring Term		
Subject	Page	Term Hours	Subject	Page	Term Hours	Subject	Page	Term Hours
*Eng. 2310 Lit. and Comp.	78	3	*Eng. 2311 Lit. and Comp.	78	3	*Eng. 2312 Technical Writing	78	3
Phys. 341 Soph. Eng. Phys.	107	4	Phys. 242 Soph. Eng. Phys.	107	4	Phys. 243 Soph. Eng. Phys.	107	4
Math. 2321 Analytic Geom.	99	3	Math. 2322 Calculus	99	3	Math. 2323 Calculus	99	3
Chem. 234 Adv. Inorganic	63	3	Chem. 235 Analytical Chem.	63	3	Chem. 239 Analytical Chem.	63	3
Chem. 237 Analytical Chem.	63	3	Chem. 236 Adv. Inorganic	63	3	Chem. 236 Adv. Inorganic	63	3
P. T. 201 Physical Training	106	1	Speech 131 Principles	110	3	P. T. 203 Physical Training	106	1
		17	P. T. 202 Physical Training	106	1			17
Junior Year			Senior Year					
Chem. 343 Organic Chemistry	63	4	Chem. 344 Organic Chemistry	63	4	Chem. 345 Organic Chemistry	63	4
Chem. 441 Physical Chem.	64	4	Chem. 442 Physical Chemistry	64	4	Chem. 443 Physical Chemistry	64	4
C. E. 331 Applied Mechanics	140	3	C. E. 332 Applied Mechanics	140	3	C. E. 333 Applied Mechanics	140	3
Eco. 231 or For. Language	65	3	Eco. 232 or For. Language	65	3	Eco. 233 or For. Language	65	3
Math. 3311 Advanced Calculus	100	3	Math. 3312 Advanced Calculus	100	3	Gov. 330 Commercial Law	89	3
Chem. 310 Chem. Eng. Calc.	63	1	Chem. 311 Chem. Eng. Calc.	63	1	M. E. 439 Metallurgy	153	3
		18			18			20
E. E. 324 Elements	143	3	E. E. 335 Elements	143	3	E. E. 336 Elements	143	3
M. E. 331 M. E. Equipment	151	3	M. E. 311 Laboratory	142	1	M. E. 312 Laboratory	142	1
Chem. 336 Industrial Chem.	64	3	Chem. 337 Industrial Chem.	64	3	Chem. 338 Industrial Chem.	64	3
Chem. 434 Prin. of Chem. Eng.	64	3	Chem. 435 Prin. of Chem. Eng.	64	3	Chem. 436 Prin. of Chem. Eng.	64	3
E. Dwg. 232 Machine Drawing	146	3	Chem. 332 Thermodynamics	151	3	Chem. 333 Thermodynamics	151	3
Electives		3	M. E. 328 Heat Engr. Lab.	151	2	M. E. 329 Heat Engr. Lab.	151	2
		18	M. E. 421 Chem. Plant Des.	146	2	M. E. 422 Chem. Plant Des.	146	2
			Elective		3			17

* Or English E231, E232 and E233.

TEXTILE ENGINEERING

Fall Term				Winter Term				Spring Term			
Subject	Page	Term Hours		Subject	Page	Term Hours		Subject	Page	Term Hours	
C. E.	230	Surveying	139	*Eng.	2311	Lit. and Comp.	78	*Eng.	2312	Technical Writing	78
C. E.	2310	Lit. and Comp.	78	Math.	2322	Calculus	99	Speech	131	Principles	110
*Eng.	2321	Analytic Geom.	99	M. E.	2321	Problems	149	Math.	2323	Calculus	99
Phys.	241	Soph. Eng. Phys.	107	Phys.	242	Soph. Eng. Phys.	107	M. E.	220	Mach. Shop	148
T. E.	224	Fabrics and Design	155	E. Dwg.	232	Machine Drawing	145	Phys.	243	Soph. Eng. Phys.	107
		Mfg.	155	T. E.	225	Fabric Design and	155	T. E.	226	Fabric Design and	155
P. T.	201	Physical Training	106	P. T.	202	Physical Training	106	P. T.	203	Physical Training	106
			16				18				19
				Junior Year							
C. E.	331	Applied Mechanics	140	C. E.	332	Applied Mechanics	140	C. E.	333	Applied Mechanics	63
Chem.	343	Organic Chemistry	63	Chem.	344	Organic Chemistry	63	Chem.	345	Organic Chemistry	140
E. E.	331	Elem. of Elec. Engr.	143	E. E.	324	Elec. Engr. Lab.	143	E. E.	325	Elec. Engr. Lab.	143
T. E.	331	Yarn Manufacture	155	E. E.	335	Elem. of Elec. Engr.	143	E. E.	336	Elem. of Elec. Engr.	143
T. E.	341	Fabric Design and	155	T. E.	332	Yarn Manufacture	155	Eco.	231	Yarn Manufacture	155
		Mfg.	155	T. E.	342	Fabric Design and	155	T. E.	343	Fabric Design and	155
			17			Mfg.	155			Mfg.	155
				Senior Year							
M. E.	427	Dynamics	152	Eco.	232	Economics	65	Eco.	233	Economics	65
Eco.	231	Economics	65	M. E.	318	Mech. Engr. Lab.	150	Gov.	330	Commercial Law	89
M. E.	331	Mech. Eng. Equip.	151	M. E.	335	Heat Engineering	151	M. E.	319	Mech. Engr. Lab.	150
T. E.	434	Dyeing and Finish	156	M. E.	434	Industrial Engr.	153	M. E.	336	Heat Engineering	151
T. E.	431	Yarn Manufacture	156	T. E.	435	Dyeing and Finish	156	T. E.	436	Dyeing and Finish	156
T. E.	441	Fabric Design and	156	T. E.	432	Yarn Manufacture	156	T. E.	433	Yarn Manufacture	156
		Mfg.	156	T. E.	442	Fabric Design and	156	T. E.	443	Fabric Design and	156
			18			Mfg.	156			Mfg.	156

*Or English 231, 232 and 233.

DEPARTMENT OF ARCHITECTURAL ENGINEERING

Professor F. A. Kleinschmidt. Associate Professor Edgar Shelton

The curriculum in Architectural Engineering is designed primarily for the student who desires to specialize in the constructional side of the building profession.

The wide and varied field in Architectural Engineering includes the superintending of building construction, general contracting, estimating of cost for constructional projects, and the designing of the structural members of steel, timber, and concrete. The student is therefore given a ground work in mathematics and applied mechanics, and engineering courses in structural design, heating and ventilation, heat engines and some work in testing materials, surveying, and the chemistry of engineering materials.

Although the Architectural Engineer specializes in the engineering aspects of architecture, the nature of his work is such that it is necessary for him to be well grounded in the underlying principles of art and architectural design. He must be prepared for practicing in association with one specializing more particularly in design, for intelligent and sympathetic collaboration with architects and builders. The course leads to the degree of Bachelor of Science in Architectural Engineering and requires normally four years for its completion.

For those who wish to confine themselves more to the aesthetic side of the building profession, courses in design, freehand drawing and history may be taken in substitution for constructional courses.

ARCHITECTURAL DESIGN

The course in Architectural Design begins with instruction in Architectural drawing, wash rendering, lettering and elements of Architectural Design. After this preliminary work is completed the student is given at stated intervals long and short problems in which the conditions are governed by a definite program. The student is expected to solve and work out his solution of the problem in his own way under individual criticism, thereby developing the creative faculties of the individual.

Throughout the entire course guidance is given in the matter of principles of good design and sound construction. Sketch problems of short duration are assigned from time to time in order to increase facility and rapidity of expression.

131. *Shades and Shadows.*

Prerequisite: Engineering Drawing 231. 9 laboratory hours.
Exercises in conventional shades and shadows of common

geometrical solids, solids of revolution, and simple architectural members.

132. *Perspective.* 9 laboratory hours.

Prerequisite: Architecture 131. 9 laboratory hours.

The theory of perspective as applied to common geometrical solids, and to problems from architectural practice.

133-4-5. *Elements of Architecture.* 9 laboratory hours.

(Formerly Architecture 231-2-3.)

Architectural drawing, lettering, and wash rendering in India ink and monotone; elements of architectural design, walls, doors, windows, colonnades, arcades, mouldings, vaults, etc.

Fee: \$4.00.

234-5, 246. *Architectural Design, Grade I.* 9 laboratory hours in Fall and Winter Terms; 12 hours in Spring Term.

Prerequisite: Architecture 133-4-5.

Long and short problems under individual criticism dealing in general with the elements of plan and elevation. Sketch problems dealing with composition.

Fee: \$4.00.

361-2, 373. *Architectural Design, Grade II.* 18 laboratory hours in Fall and Winter Terms; 21 hours in Spring Term.

Prerequisite: Architecture 234-5, 246.

Long and short problems, under individual criticism dealing with simple architectural composition. Sketch problems dealing with large compositions or decorative detail.

Fee: \$4.00.

491-2-3. *Architectural Design, Grade III.* 27 laboratory hours.

Prerequisite: Architecture 361-2, 373.

Long, short and sketch problems under individual criticism dealing with more complex kinds of architectural composition, particularly with subjects involving special character and a decorative and imaginative interest.

Fee: \$4.00.

429, 431-2. *Interior Decorative Design.* 6 laboratory hours in Fall Term; 9 hours in Winter and Spring Terms.

Prerequisite: Architecture 234-5, 246, 224-5, 313, or approval of instructor.

Problems done under individual criticism dealing with the design and decorative treatment of furniture and accessories of in-

teriors. Special attention is given to period design. Designed primarily for juniors and seniors.

DRAWING AND PAINTING

The aim of the instruction in Freehand Drawing and in Painting is to teach accurate observation of form, proportions, light and shade, color, and their artistic representation and interpretation, as a matter of general education and as part of a more specific training in pictorial or decorative art, or in architecture.

Students begin drawing in charcoal from simple objects which involve the accurate representation of form in light and shade; simple decorative natural and architectural forms are next drawn, after which portions of the figures, the hand, foot, head, etc., are drawn from plaster casts. The satisfactory completion of these courses is followed with the drawing from the living model.

The course in Painting in water color from still life and from nature is required of all architectural students, but cannot be taken without first completing Object Drawing 121-2-3 and Pencil Rendering and Sketching 221. Advanced students may elect other media, such as oil, pastel, etc.

The course of modeling in clay aims to develop a sense of plastic design and give appreciation of architectural sculpture. Some of the finest examples of architectural ornament and sculpture are copied in facsimile to develop skill in modeling technique and to familiarize the student with the style.

121-2-3. Object Drawing. 6 laboratory hours.

The drawing in charcoal of simple geometric objects; studies from fragments of antique architectural ornament.

220. Pencil Rendering and Sketching. 6 laboratory hours.

Prerequisite: Object Drawing, Architecture 121-2-3.

The drawing of architectural ornaments, architectural fragments, and pencil sketches from nature.

Fee: \$1.50.

224-5. Water Color. 6 laboratory hours.

Prerequisite: Architecture 220 or approval of instructor.

Exercises in the handling of the medium and of the translation of color; theory of color.

Fee: \$3.00.

226. Pen and Ink Rendering. 6 laboratory hours.

Prerequisite: Water Color, Architecture 224-5.

Students not registered in architecture should have equivalent

of 6 term hours in Freehand Drawing before electing this course.

Studies from plaster casts, still life, and nature.

Fee: \$1.50.

327. *Still Life Drawing*. 6 laboratory hours.

Prerequisite: Water Color, Architecture 224-5.

Drawing in charcoal from decorative forms, portions of the human figure and from full-length plaster casts.

Fee: \$1.50.

328-9. *Life Drawing*. 6 laboratory hours.

Prerequisite: Still Life Drawing, Architecture 327.

Drawing from the living model in charcoal.

Fee: \$3.00.

424-5. *Life Drawing*. 6 laboratory hours.

Prerequisite: Architecture 328-9.

A continuation of Life Drawing, Architecture 328-9.

Fee: \$3.00.

421-2-3. *Clay Modeling*. 6 laboratory hours.

Prerequisite: Architecture 324-5 or approval of instructor.

The making of clay models, plaster casts of simple decorative fragments and anatomical forms; construction of relief maps.

433-4-5. *Advanced Water Color*. 9 laboratory hours.

Prerequisite: Architecture 224-5.

Painting done mostly in water color and tempera. Non-architectural students may elect to use oil or pastel. Studies from still life and nature.

Fee: \$4.00.

HISTORY OF ARCHITECTURE, PAINTING AND SCULPTURE

In the history of architecture the technical and artistic development of the art of building from the earliest times to the present is traced and profusely illustrated by means of the stereopticon, books, and photographs. The student is required to study the outlines of general history concurrent with architectural history, so that he may have an intelligent idea of the causes and influences which helped to mold the various modes of building. A thorough knowledge of the great architectural styles is insisted upon and in order to accomplish this a careful study is made of the important examples of each style. The student thus gains an appreciation of the finest achievements of his art.

Each student is required to spend a certain amount of time each week in research in the library, making sketches or plans, sections, elevations, and decorative motives or ornament.

There is an intimate connection of architecture with the allied arts of sculpture and painting; therefore the history of these subjects is given in a course of lectures with the aid of the stereopticon and photographs.

227-8-9. History of Architecture. 2 class hours.

Formerly Architecture 211-2-3.

A technical history of architecture from the dawn of civilization to the end of the Greek Period; the Roman Empire; Early Christian and Byzantine Periods; the Romanesque and Gothic.

Fee: \$4.00.

321-2-3. History of Architecture. 2 class hours.

Prerequisite: History of Architecture 227-8-9.

A technical study of the architecture of the Italian Renaissance, Italian, French, Spanish, English, and German Renaissance, and of modern times.

320. History of Early Civilizations and Art. 3 class hours.

Prerequisite: History of Architecture 227-8-9, or Architecture 330-1.

A course of illustrated lectures that deal with the origins of art and early civilizations. Library research in Anthropology and Archaeology.

324-5. History of Sculpture. 3 class hours.

Prerequisite: Architecture 320-1.

Illustrated lectures on the development of sculpture from the Egyptian to the present day.

313. History of Ornament and Furniture. 2 class hours.

Prerequisite: Architecture 321-2.

Illustrated lectures on the various styles of ornament and furniture from the ancient to modern times and its relation to interior design. Library research making sketches of decorative ornament and typical styles in furniture.

426-7-8. History of Painting. 3 class hours.

Prerequisite: Architecture 324-5.

Illustrated lectures dealing with the development of painting from earliest times to present day. Primarily a cultural course that aims to give the student an intimate knowledge of the

various styles of painting and of the great masterpieces of the world.

Fee: \$4.00.

330-1. *General Course in the History of Architecture.* 3 class hours.

Designed to give to students seeking a liberal cultural education a survey of the development of the art of building. The Temples, Cathedrals, Palaces, and other characteristic monuments of the Ancient, Mediaeval, Renaissance and Modern Styles.

The course is open to all students in the College but cannot be counted towards graduation in the Department of Architecture.

For students desiring a more intensive study of the technical and historical development of architecture, courses in Architecture 124-5-6, and 225-6-7 are recommended.

Fee: \$3.00.

BUILDING CONSTRUCTION AND EQUIPMENT

236. *Building Materials and Construction.* 3 class hours.

Prerequisite: Architecture 133-4-5.

An introduction to the properties and uses of the materials of construction; plumbing, heating, and lighting systems; occasional visits to buildings under construction.

237-8. *Working Drawings and Specifications.* 9 laboratory hours.

Prerequisite: Architecture 236.

Preparation of working drawings and specifications for suburban houses; drawing complete details for buildings, heating, plumbing and structural problems.

(This is a combination of Architecture 221-2-3 and Architecture 417-8-9 as they appear in the Third Annual Catalogue.)

326. *Building Sanitation.* 2 class hours.

Prerequisite: Junior standing in Architectural Engineering. The location and orientation of buildings; lighting, ventilation, water supply plumbing, sewage and refuse disposal.

411-2. *Business Practice.* 1 class hour.

Prerequisite: Senior standing in Architectural Engineering. Office organization, ethics, professional relations.

414. *Estimating.* 1 class hour.

Prerequisite: Senior standing in Architectural Engineering. Principles of the quantity survey; cost analysis.

DEPARTMENT OF CIVIL ENGINEERING

Professor Murdough. Associate Professor Adams
Assistant Professor McRee.

Civil Engineering includes a number of branches, each resting on a relatively compact body of principles. They may be classified as:

(1) *Surveying and Geodesy*—which deals with the measurement and delineation of portions of the earth's surface and objects on it.

(2) *Railroad Engineering*—which deals with the location, construction, and some phases of the maintenance and operation of railroads.

(3) *Highway Engineering*—which deals with the location, construction, and maintenance of highways and pavements.

(4) *Hydraulic Engineering*—which deals with the use and control of water as a source of power, and as a necessity of life and convenience to mankind. In some of its phases, the practice of hydraulic engineering demands a knowledge of electrical and mechanical engineering.

(5) *Sanitary Engineering*—which deals with problems pertaining to the protection and preservation of the public health.

(6) *Structural Engineering*—which deals with the design and construction of fixed structures and their foundations. A profession closely allied to this branch is Architectural Engineering.

The course in Civil Engineering offered by the Texas Technological College aims to give thorough instruction in the fundamentals of each of these branches.

COURSES OF INSTRUCTION

230 *Elementary Surveying*. 1 class hour, 6 laboratory hours.

Prerequisite: Mathematics 1310.

The use of the compass, transit, tape, and level.

Deposit: \$3.00.

241-2-3. *Plane Surveying*. 4 class and laboratory periods.

Prerequisite: Mathematics 1310.

The use and adjustment of surveying instruments; making plane surveys with transit and tape; running profiles and cross sections with the level; making computations from field notes;

the mathematics of curves as applied to the location of railroads and highways, with field practice.

Deposit: \$3.00.

312. Materials Laboratory. 3 laboratory hours.

Prerequisite: Registration in Civil Engineering 332.

Standard tests and reports on steel, iron, and wood specimens.

Fee: \$1.50; deposit: \$2.00.

313. Concrete Laboratory. 3 laboratory hours.

Prerequisite: Junior Engineering standing.

Study of the physical properties of cement, mortar, and concrete.

Fee: \$1.50; deposit: \$2.00.

314. Highway Laboratory. 3 laboratory hours.

Prerequisite: Civil Engineering 335.

Standard laboratory tests on road building materials.

Fee: \$1.50; deposit: \$2.00.

(This course was formerly Civil Engineering 413).

315-6. Graphics. 3 laboratory hours.

Prerequisite: Registration in Civil Engineering 338-9.

Drawing room practice on principles taught in Civil Engineering 338-9.

331-2-3. Applied Mechanics. 3 class hours.

Prerequisite: Mathematics 2313.

The study and application of the principles of statics; the physical properties of materials, the stresses and strains in bodies subject to tension, compression and shear; the common beam theory; distribution of normal and shearing stresses; equation of the elastic curve; the theory of torsion; stresses due to combined bending and axial loads.

334. Surveying. 1 class hour, 6 laboratory hours.

Prerequisite: Civil Engineering 241-2-3.

Surveying by stadia, use of plane table, triangulation, astronomical determination of azimuth, latitude and time.

Fee: \$1.50; deposit: \$2.00.

338-9. Structures. 3 class hours.

Prerequisite: Civil Engineering 331.

A course including an exhaustive study of curves of moment and shear; construction and use of influence lines and tables,

stresses in framed structures by analytical and graphical methods, and the standard methods of determining stresses due to moving load systems.

(This course was formerly Civil Engineering 342-3).

412. *Hydraulic Laboratory.* 3 laboratory hours.

Prerequisite: Civil Engineering 439.

A laboratory study of principles taught in Civil Engineering 439.

Fee: \$1.50; deposit: \$2.00.

430. *Materials.* 3 class hours.

Prerequisite: Senior Engineer standing.

A lecture course designed to acquaint the student with the more common building materials, such as brick, stone, cement, concrete, wood, steel.

431-2-3. *Reinforced Concrete Theory.* 3 class hours.

Prerequisite: Civil Engineering 331-2-3.

The study and application of the theory of reinforced concrete design.

(Civil Engineering 432 was formerly Civil Engineering 443).

442, 434. *Structures.* Class and laboratory.

Prerequisite: Civil Engineering 338-9.

Design and detailing structures of wood and steel.

No fee.

335-6-7. *Highway Engineering.* 3 class hours.

Prerequisite: Registration in Civil Engineering 331.

Study of the fundamentals of highway location, design, construction, maintenance, finance and transport.

439. *Hydraulics.* 3 class hours.

Prerequisite: Civil Engineering 331.

Study of the principles of hydrostatics and hydrodynamics as applied to engineering problems.

420. *Highway Laboratory.*

Prerequisite: Registration in Civil Engineering 4313.

Laboratory study of highway materials for those electing Civil Engineering 4311-12-13.

Fee: \$1.50; deposit: \$2.00.

4311-12-13. Highway Engineering.

Prerequisite: Civil Engineering 335-6-7.

Study of highway administration, finance, design, estimates and specifications.

DEPARTMENT OF ELECTRICAL ENGINEERING

Professor Miller. Associate Professor Young
Assistant Professor Helwig.

The course in Electrical Engineering aims to give a thorough and comprehensive training in the fundamental principles of electricity and magnetism, which experience has proved to be necessary for the proper development of the electrical engineering student.

The instruction in these principles includes consideration of the theory, operation and design of circuits, generators, motors, converters, control devices, transmission lines and distribution systems.

Special emphasis is placed upon the student's ability to reason logically, apply mathematics, and speak and write clear, concise English. In order to prepare the student for his professional courses the first two years are devoted to a study of mathematics, English, physics, chemistry, drawing and shop practice.

No sharp divisions can be made between the various branches of engineering. Therefore the student is given thorough courses in the fundamentals of chemical, civil, and mechanical engineering in addition to the work in electrical engineering.

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

231. Principles of Electrical Engineering. 3 class hours.

Prerequisite: Physics 242; Mathematics 2312.

A course of recitations and problems on the fundamental principles of the electric, magnetic and dielectric circuits.

311-2. Electrical Engineering Laboratory. 3 laboratory hours.

Prerequisite: Registration in Electrical Engineering 335.

A laboratory testing course to accompany Electrical Engineering 334-5-6.

Fee: \$3.00.

321-2-3. Electrical Engineering Laboratory. 6 laboratory hours.

Prerequisite: Registration in Electrical Engineering 331.

A laboratory course to accompany Electrical Engineering 331-2-3.

Fee: \$4.00.

324-5. *Electrical Engineering Laboratory*. 3 laboratory hours.

Prerequisite: Registration in Electrical Engineering 335.

Identical with Electrical Engineering 311-2, except an outside report is required.

Fee: \$3.00.

326. *Electrical Engineering Laboratory*. Laboratory and report.

Prerequisite: Registration in Electrical Engineering 338.

A laboratory course of standard tests of direct and alternating current electrical apparatus to accompany Electrical Engineering 337-8.

Fee: \$1.50.

331-2-3. *Principles of Electrical Engineering*. 3 class hours.

Prerequisite: Electrical Engineering 231.

Recitations and problems in the fundamental theory, operating characteristics and application of direct current machinery; alternating current circuits are studied in 333.

334-5-6. *Elements of Electrical Engineering*. 3 class hours.

Prerequisite: Physics 243 and Mathematics 2313.

An elementary course of recitations and problems dealing with the theory and principles of electrical circuits and machinery for students not seeking a degree in Electrical Engineering.

337-8. *Elements of Electrical Engineering*. 3 class hours.

Prerequisite: Physics 243 and Mathematics 2313.

A brief course dealing with the principles of direct and alternating current circuits and machinery. For students of Civil Engineering.

410. *Electrical Engineering Seminar*. 1 class hour.

Prerequisite: Electrical Engineering 432.

A study and discussion of current events in the field of electrical engineering.

421-2-3. *Electrical Engineering Laboratory*. 6 laboratory hours.

Prerequisite: Registration in Electrical Engineering 431.

A laboratory course to accompany Electrical Engineering 431-2-3.

Fee: \$4.00.

431-2-3. *Alternating Current Machinery.* 3 class hours.

Prerequisite: Electrical Engineering 333.

A course of recitations and problems on the construction, theory of operation, and characteristics of the principal types of alternating current machinery.

434-5-6. *Electrical Applications and Transmission.* 3 class hours.

Prerequisite: Registration in Electrical Engineering 431.

A course devoted to problems and considerations involved in the transaction and utilization of electrical energy.

437. *Principles of Electrical Communication.* 3 class hours.

Prerequisite: Senior standing.

A brief course dealing with the principal system of telephony and the fundamental principles involved in wire and radio telephony.

438. *Illumination.* 3 class hours.

Prerequisite: Senior standing.

Lectures and discussions dealing with production, measurement and utilization of light.

DEPARTMENT OF ENGINEERING DRAWING

Professor Svensen. Assistant Professor Boller.

Instructors Atkinson, Street. Assistant Spur.

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

121-2-3. *Engineering Drawing.* 1 lecture hour, 4 laboratory hours.

Prerequisite: Solid geometry.

Approved drawing equipment required. Cost about \$25.

The essentials of drafting, including the use of instruments, lettering, orthographic projections, sections, intersections, developments, isometric and oblique drawing, and elementary working drawings.

131-2. *Engineering Drawing.* 1 lecture hour, 6 laboratory hours.

Same as Engineering Drawing 121-2-3.

Winter and Spring Terms only.

124. *Agricultural Drawing*. 3 two-hour lectures and laboratory periods.

Drawing equipment required.

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 of agriculture.

Fall term.

133. *Home Economics Drawing*. 2 three-hour lecture and laboratory periods.

Drawing equipment required.

The use of instruments, geometry in design, orthographic projections, lettering, mechanical pictorial methods, the meaning of "scale", building features, floor plans, room layouts, etc. A fundamental course planned especially for Home Economics students.

Fall term.

211. *Technical Sketching and Lettering*. 3 lecture and laboratory hours.

Prerequisite: Engineering Drawing 121 or equivalent.

An intensive course in orthographic and pictorial sketching and engineering lettering.

231. *Descriptive Geometry*. 3 two-hour lectures and laboratory periods.

A course in the theory of engineering drawing which provides training in exact thinking; point, line, and plane problems, tangent planes, intersection and developments, and curved and warped surfaces.

Fall and Spring Terms.

232. *Machine Drawing*. 1 lecture hour, 6 laboratory hours.

Prerequisite: Engineering Drawing 123.

The application of the graphic language to engineering purposes, engineering sketching, theory of dimensioning, conventional practice, detail and assembly drawings, machine details,

Winter Term.

321. *Lettering*. 1 lecture hour, 4 laboratory hours.

A course in the art of lettering, including the history and de-

velopment of the alphabet, the technique of lettering, and applications.

331-2. Mechanical Drawing for Teachers. 1 lecture hour, 6 laboratory hours.

Drawing equipment required.

Plan and content of courses, methods of teaching, literature of the subject, present status of mechanical drawing. Primarily intended for high school teachers and those preparing to teach.

421-2. Chemical Plant Design. 6 laboratory hours.

Prerequisite: Machine Drawing 232.

A course designed to acquaint the student with chemical engineering equipment and its arrangement in various types of chemical plants. Drawings, calculations and sketches are used to solve assigned problems.

DEPARTMENT OF GEOLOGICAL ENGINEERING

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

The Department of Geological Engineering offers training designed to prepare students for practical work in geology, especially in the application of geology to the exploration for petroleum. The course leads to the degree of B. S. in Geological Engineering.

For a more extended description of the courses listed below see announcements under the Department of Geology, School of Liberal Arts.

141-2-3. General Geology. 3 class hours, 3 laboratory hours.

The first fundamental course in geology covering the general principles of the science.

231-2. Mineralogy. 1 class hour, 6 laboratory hours.

A study of the principles of crystallography, the properties of minerals and the methods of their identification by means of blowpipe analysis.

Prerequisite: Preceded or accompanied by Chemistry 141-2-3.

232. Introductory Economic Geology. 3 class hours.

Prerequisite: Geology 231-2.

An introductory course in economic geology.

330. *Geologic Mapping.* 1 class hour, 6 laboratory hours.

Prerequisite: Geology 141-2-3, and Civil Engineering 230 or Civil Engineering 241-2-3.

Training in special instrument methods used by the field geologist.

290. *Field Geology.* Six weeks in the field.

Prerequisite: Geology 141-2-3.

An intensive course in the methods of geologic investigations given in camps in the field. The party will visit as many different places of geologic interest as the time allotted to the course will permit.

311-2-3. *Geology of Texas.* 1 class hour.

Prerequisite: Geology 141.

An intensive course in the Geology of the State of Texas.

334-5-6. *Petrology.* 1 class hour, 6 laboratory hours.

Prerequisite: Geology 231-2-3.

A study of rocks, rock making minerals and methods of optical mineralogy.

337-8-9. *Invertebrate Paleontology.* 1 class hour, 6 laboratory hours.

Prerequisite: Geology 141-2-3.

A study of the principal "index fossils" of North America and the application of the principles of paleontology to stratigraphy.

431-2-3. *Advanced Physical, Structural and Historical Geology.* 3 class hours.

Prerequisite: Geology 141-2-3, 231-2-3, 337-8-9.

A course in general advanced geology.

434. *Ore Deposits.* 3 class hours.

Prerequisite: Geology 141-2-3, 234-5-6.

An advanced course in economic geology devoted to problems relating to deposits of metallic minerals.

435. *Geology of Petroleum.* 3 class hours.

Prerequisite: Geology 434.

Devoted to special problems of the petroleum industry.

437. *Advanced Paleontology.* 1 class hour, 6 laboratory hours.

Prerequisite: Geology 337-8-9.

Especial attention to micro-paleontology.

DEPARTMENT OF MECHANICAL ENGINEERING

Associate Professor Tuve. Assistant Professor Farris. Instructors Hardgrave and Long. Mechanician Bancook
Assistant Pearson

Mechanical Engineering is that branch of engineering which deals with the generation, transmission and utilization of power, the design, construction, operation and testing of machinery, and the management of shops and factories. The course of study in Mechanical Engineering is designed to prepare the student for entrance into these fields.

The curriculum includes, in addition to the fundamental sciences and the professional courses, a thorough training in the use of English and foundation courses in economics. Early in his course the student is given sufficient training in the mechanic arts to make him familiar with the use of hand and machine tools and with the methods employed in the machine shop, the pattern shop and foundry, and the forging and heat treating departments. In the professional subjects, by means of lectures, recitations, drawing room and laboratory work, typical mechanical engineering problems are presented and their practical solution by the application of physics, chemistry and mathematics, is indicated.

CHEMICAL ENGINEERING OPTION

Students desiring to study chemical engineering will register in the Department of Mechanical Engineering. (See page 154 for details.)

211-2. Pattern Shop. 3 laboratory hours.

Methods and principles of pattern making, including materials and tools used, lathe work, draft, shrinkage, glue joints, cores and core boxes. Kinds of patterns and how they are constructed and used.

For Electrical Engineers.

Fee: \$3.00.

220. Machine Shop. 6 laboratory hours.

Elementary machine shop work, including bench work in chipping, filing and fitting, fundamental operations on the lathe, consisting of straight turning and facing, chuck and center work, screw cutting, boring and fitting, filing and polishing. Elementary practice on drill press and shaper.

For Textile Engineers.

Fee: \$1.50.

(This course was formerly Mechanical Engineering 420.)

221. *Mechanical Engineering Problems* 1 class hour, 2 laboratory hours.

Prerequisite: Physics 144-5.

Application of physics and mathematics to the solution of simple problems in the fields of mechanism, power engineering and heat engineering. Slide rule practice.

222. *Mechanism*. 2 class hours, 3 laboratory hours.

Prerequisite: Drawing 123 or 132.

Fundamentals of mechanism. Transmission of motion by friction drives, gearing, and flexible connectors. Gear trains, cams, linkages. Graphical solution of problems.

- 225-6-7. *Shop Practice*. 6 laboratory hours.

(a) Pattern shop. Methods and principles of pattern making, including materials and tools used, lathe work, draft, shrinkage, glue joints, cores and core boxes. Kinds of patterns and how they are constructed and used.

(b) Foundry. Floor and machine molding in iron and non-ferrous metals. Foundry materials. Core making and baking.

(c) Forging and heat treating. Elementary forge practice. Welding methods and equipment. Hardening, tempering, annealing, case hardening.

(d) Machine shop. Bench work in chipping and filing. Fundamental operations on the lathe, drill press, shaper, milling machine and grinder. Straight and taper turning, boring, fitting, thread cutting, gear calculations and manufacture.

For Mechanical Engineers.

Fee: \$4.00.

- 311-2-3. *Machine Shop*. 3 laboratory hours.

Prerequisite: Mechanical Engineering 212.

Machine shop work, including bench work in chipping, filing and fitting. Fundamental operations on lathe, consisting of turning, facing, threading, fitting, boring. Operations on drill press and shaper, milling and grinding machines. Gear calculations and manufacture.

For Electrical Engineers.

Fee: \$4.00.

315. *Machine Shop*. 3 laboratory hours.

Prerequisite: Mechanical Engineering 227.

Advanced machine work. A continuation of Mechanical Engineering 227 with more advanced practice on shop equipment. Use of jigs and fixtures.

For Mechanical Engineers.

Fee: \$1.50.

316-17. Shop Projects. 3 laboratory hours.

Prerequisite: Mechanical Engineering 315.

Various shop methods and their influence on the design of machine parts. Practice in all operations in the manufacture of certain machine parts, making patterns, molding, casting, machining and assembling.

Fee: \$3.00.

318-9. Heat Engineering Laboratory. 3 laboratory hours.

Prerequisite: Registration in Mechanical Engineering 335.

Mechanical engineering measurements. Heat transmission and heat transfer equipment. Tests of steam power plant equipment, air machinery and internal combustion engines.

For Textile Engineers.

Fee: \$3.00.

321. Mechanical Measurements. 6 laboratory hours.

Prerequisite: Registration in Mechanical Engineering 331.

Methods and instruments used in the common mechanical engineering measurements of temperature, pressure, speed, weight, volume, area, power, etc. Methods of calibration and use of thermometers and pyrometers, gages and manometers, tachometers, planimeters, friction brakes, and indicators. Efficiency tests of simple machines.

For Mechanical Engineers.

Fee: \$1.50.

322. Thermodynamics Laboratory. 6 laboratory hours.

Prerequisite: Mechanical Engineering 332.

Experimental study of the properties of steam, flow of fluids, the indicator diagram, heat transmission and heat transfer equipment, steam-air mixtures.

For Mechanical Engineers.

Fee: \$1.50.

326. Machine Design. 2 class hours.

Prerequisite: Mechanical Engineering 222, Engineering Drawing 232, Civil Engineering 331.

A study of the various parts which go to make up a machine, and the application of mechanics in the determining of their proper size.

327. Machine Design. 6 laboratory hours.

Prerequisite: Mechanical Engineering 326.

The complete design of a machine or some of its parts, with working drawings, bill of material, cost estimates, etc.

328-9. Heat Engineering Laboratory. 6 laboratory hours.

Prerequisite: Registration in Mechanical Engineering 335. Mechanical engineering measurements. Heat transmission and heat transfer equipment. Tests of steam power plant equipment, air machinery and internal combustion engines.

For Electrical Engineers and Chemical Engineers.

Fee: \$3.00.

331. Mechanical Engineering Equipment. 3 class hours.

Prerequisite: Physics 145.

A general study of heat-power machines, forming a practical background for the study of thermodynamics. Types of steam engines and turbines, condensers and pumps, boilers and their auxiliaries, internal combustion engines, air compressors and refrigerating machines.

332-3. Thermodynamics. 3 class hours.

Prerequisite: Mechanical Engineering 331.

A study of the thermodynamic principles governing the action of steam engines and turbines, internal combustion engines, air compressors, and refrigerating machines. Properties of air, steam, ammonia and other heat media. Heat transformation into work, laws of gases, flow of fluids. Ideal and actual heat engine cycles. Supplemented with an extensive set of engineering problems.

For Mechanical Engineers and Chemical Engineers.

335-6. Heat Engineering. 3 class hours.

Prerequisite: Mechanical Engineering 331.

Fuels and combustion. Elementary thermodynamics of steam engines, turbines and internal combustion engines. Selection of equipment for highest commercial economy.

For Electrical Engineers and Textile Engineers.

338. Heat Engineering. 3 class hours.

Prerequisite: Mechanical Engineering 331.

Fuels and combustion. Elementary thermodynamics. Steam engines and turbines, internal combustion engines. Selection of power equipment.

For Civil Engineers.

339. Heat Engineering. 2 class hours, 3 laboratory hours.

A continuation of Mechanical Engineering 338, supplemented by a laboratory course in mechanical engineering measurements and power plant testing.

For Civil Engineers.

411-2. *Seminar*. 1 class hour.

Prerequisite: Senior standing.

Studies of industrial, engineering and scientific subjects presented by members of the class for informal discussion.

413-4. *Advanced Machine Shop Practice*. 3 laboratory hours.

Special topics incidental to machine shop practices; advanced work (including tool room practice), on lathes, grinder, miller and automatic machines.

(This course may be modified to suit individual requirements.)

Prerequisite: Mechanical Engineering 313 or 315.

Fee: \$3.00.

421-2. *Power Plant Laboratory*. 6 laboratory hours.

Prerequisite: Registration in Mechanical Engineering 431.

Test of steam power plant units: boilers, engines, turbines, fans, compressors, pumps. Special attention to analysis of data and writing of reports.

Fee: \$3.00.

423. *Gas Engines Laboratory*. 6 laboratory hours.

Prerequisite: Registration in Mechanical Engineering 437.

Complete tests of internal combustion engines using gas, gasoline, kerosene, alcohol and heavy oil fuels.

Fee: \$1.50.

424-5. *Engineering Design*. 6 laboratory hours.

Prerequisite: Mechanical Engineering 327.

A definite problem in the design of a machine, prime mover or plant layout, to be selected by the student in conference with the instructor.

427. *Dynamics*. 2 class hours.

Prerequisite: Civil Engineering 331-2-3.

A study of the principles of kinematics and kinetics.

428. *Industrial Engineering*. 2 class hours.

Prerequisite: Mechanical Engineering 434.

A continuation of Mechanical Engineering 434.

431-2. *Power Plant Engineering*. 2 class hours.

Prerequisite: Mechanical Engineering 333.

Power plant equipment, instrument and control apparatus. Selection and layout of equipment for highest commercial economy. Boiler room management and station heat balance.

434. *Industrial Engineering*. 3 class hours.

Prerequisite: Senior standing.

A study of the modern industrial system and of the application of scientific knowledge to the management of industry. Standardization, time studies and job analysis, wage payment systems, personnel relations. Plant layout, planning and scheduling inspection. Safety engineering.

435-6. *Mechanical Equipment of Buildings*. 2 class hours, 3 laboratory hours.

Prerequisite: Senior standing.

Heat losses from buildings. Hot air, hot water and steam heating systems. Ventilation and air conditioning. Fire protection, vacuum cleaning and miscellaneous equipment.

438. *Internal Combustion Engines*. 3 class hours.

Prerequisite: Mechanical Engineering 333.

Characteristic types of internal combustion engines, including stationary, marine and automotive engines. Actual and theoretical engine cycles. Carburetion and fuel injection. Cooling, lubrication, governing.

439. *Metallurgy of Iron and Steel*. 3 class hours.

Prerequisite: Chemistry 143, Physics 243.

The manufacture of iron and steel. Blast furnaces, puddling, cementation, crucible process, Bessemer process, open hearth process, iron and steel founding, malleable cast iron. Heat treatment and metallography. Alloy and tool steels.

4311-12-13. *Industrial Engineering*.

Prerequisite: Mechanical Engineering 434.

Class and laboratory work dealing with production methods, functions of the planning department, and of the inspection department. Materials handling and plant transportation. Location, arrangement and construction of plants. Safety and accident prevention. Production control. Industrial economics.

4314-15-16. *Heat-Power Engineering*.

Prerequisite: Mechanical Engineering 333 or 336.

Advanced thermodynamics. Study of the comprehensive problem of supplying heat, ventilation, power, refrigeration and related service to a typical industrial plant, public institution or large building. Power plant economics and plant management. Central station problems.

4317-18-19. Internal Combustion Engineering.

Prerequisite: Mechanical Engineering 333 or 336.

Mechanical and thermodynamic problems involved in the application of the internal combustion engine to automobiles, trucks, tractors, aeroplanes, locomotives and stationary power plants.

CHEMICAL ENGINEERING OPTION

Professor Read.

Students desiring to study chemical engineering will register in the Department of Mechanical Engineering. Certain courses in chemistry and plant design will be substituted for some of the prescribed work in the Mechanical Engineering curriculum, thus preparing the students for employment in the chemical phases of industrial and manufacturing fields.

This curriculum leads to the degree of Bachelor of Science in Mechanical Engineering (Chemical Engineering option). The curriculum is so arranged that only one more year of study is required to earn the degree of Bachelor of Science in Chemical Engineering in institutions granting such degree.

DEPARTMENT OF TEXTILE ENGINEERING

Professor Camp. Associate Professor Nelson. Instructor Heard

The Department of Textile Engineering offers excellent opportunities to the students who intend entering the textile industry. With the superior equipment for instruction in the manufacture of all grades of cotton goods, this department is expected to bring a material increase in the wealth and prosperity of the people of the State, by turning into finished products the millions of dollars worth of raw materials being shipped annually to distant factories.

The building occupied by this department has two stories and is sixty-six feet wide by two hundred and eighteen feet long. It is a splendid example of architectural skill and has admirably arranged classrooms, laboratories, machinery halls, etc.

A broad education is given as a foundation for the work in Textile Engineering. The course includes, in addition to the purely textile subjects, English, mathematics, physics, chemistry, machine drawing, surveying, steam engines and boilers, electricity, industrial engineering, etc.

The textile work embraces lectures, calculations, testing, investigation and experimenting with the various machines; practical operation of the machines by the students, sketching of the complicated parts, the principles of fabric structures, and the elements of woven design. The structure and cost of fabrics are ascertained by work in cloth analysis.

The weaving department is equipped with the most modern machinery for the production of almost any type of cotton fabric; upon these machines the students do practical work in the manufacture of many standard fabrics. A wide latitude is given the student in producing fabrics to illustrate different color combinations and weave effects of his own.

The principles of latch needle knitting applicable to the knitting of hose, half-hose, and mufflers; the construction and operation of circular and flat latch needle machines are studied.

The products made are in a large measure standard fabrics. All data regarding their manufacture, etc. are collected by the students.

In the laboratory work which precedes the practical dyeing on the machines, the students study the actions of alkalies, acids, etc., upon the different textile fibers and the application of the various classes of dyes to silk, wool, and cotton, and artificial silk. Full details of the processes employed in bleaching cotton yarn and cloth are followed, including water purification by chemical and mechanical means with special reference to bleaching and finishing.

A testing laboratory is equipped with the most approved apparatus for testing the products in the various stages of manufacture into yarns, cloth, etc. Cottons, laps, silvers, rovings, yarns and fabrics are tested for determining the moisture content, the effect of different speeds, settings, twists, temperatures and humidities on the appearance, elasticity and strength of yarns and fabrics.

Complete systems of heating, lighting and humidifying found in the modernly equipped mill are installed here.

224-5-6. Fabric Design, Analysis and Manufacture. 6 laboratory hours.

Prerequisite: Sophomore standing.

A course in the design, analysis, calculation pertaining to yarns, fabrics and the looms; practical weaving on plain power looms.

331-2-3. Yarn Manufacture. 2 class hours, 3 laboratory hours.

Prerequisite: Junior standing.

Practical operation and a study of the construction of machines used for manufacturing cotton yarn.

341-2-3. Fabric Design, Analysis and Manufacture. 1 class hour, 9 laboratory hours.

Prerequisite: Textile Engineering 226.

Dobby designing of weaves, analysis of fabrics of different weaves, and calculations of constructions and cost. Preparation of warps and actual weaving.

434-5-6. *Textile Chemistry, Dyeing and Finishing.* 1 class hour, 6 laboratory hours.

Prerequisite or parallel: Chemistry 343-4-5.

Bleaching, mercerizing, dyeing, printing and finishing of cotton wool and silk fabrics; the hydrolysis of starches and proteins; textile uses of enzymes. Complete data and samples, both dyed, finished and unfinished are retained by the student for future use.

(Formerly Textile Engineering 421-2-3.)

431-2-3. *Yarn Manufacture, Knitting and Testing.* 2 class hours, 3 laboratory hours.

Cotton combing and the spooling, warping, twisting, winding, reeling, knitting and testing of yarns; mill planning; humidification; cotton grading from the spinner's viewpoint.

441-2-3. *Fabric Design, Analysis and Manufacture.* 1 class hour, 9 laboratory hours.

Prerequisite: Textile Engineering 343.

The designing and practice in weaving of lenos; marquisesettes; broadcloths; shirtings; velvets; jacquard designs in dress goods, damask and blankets. The preparation of fabrics for market.

SCHOOL OF AGRICULTURE

ARTHUR H. LEIDIGH, Dean

PURPOSE

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

Specialization in any one of several particular lines is offered in keeping with experience and good practice.

The purpose of the course of study outlined herewith is to meet the needs of those who desire to prepare themselves for service and life in some part of the agricultural organization of this country as a whole. Courses are accordingly offered for those who expect to operate farms or ranches, those who purpose to enter manufacturing, technical or scientific professions bearing directly on agriculture, and also for those who desire to live in and be a part of a community in which the basic industry is agriculture. In all these courses it is felt that sympathy with and understanding of agriculture subjects and problems are essential to the intelligent citizen.

A good education for one engaged in any of the various branches of agriculture necessitates that part of the cultural subjects of the usual college course be replaced by those which have a direct bearing on agriculture. The scientific and technical subjects studied are fundamental. In the latter years of the student's work, the scientific and agricultural subjects have both a more specific application to agriculture, and a more fundamental bearing on certain special lines of work which the student may desire to pursue as a life work.

BUILDINGS

The buildings of the School of Agriculture thus far completed consist of the Stock Judging Pavilion, the Dairy Barn, the first unit of the Greenhouse, and a small building used for offices and class rooms. These buildings are of permanent construction and so planned that they may be added to as the occasion may demand.

EQUIPMENT

The School of Agriculture maintains laboratories both in and out of doors. Approximately 700 acres of pasture land and 964 acres of cultivated lands and small pastures are available for laboratory purposes. In addition the campus of 320 acres is used for laboratory instruction in special branches of Horticul-

ture. Extensive improvements have been made for the live stock and poultry and for the use of the Horticultural and Agronomy Departments.

SERVICE

Instruction in all of the subjects offered in the various courses is available to all students in the College, whether they major in Agriculture or in one of the other schools of the College.

To the end that the Agricultural equipment and facilities may serve the greatest number of people, the School of Agriculture conducts contests for vocational agricultural students and boys' club members, and also short courses and demonstrations of one or two days each.

FIELD FOR GRADUATES

There is a constant demand for men trained in specialized lines of agriculture as well as for men to enter professions wherein a basic agricultural education is required. The School of Agriculture will assist its graduates in securing employment if desired. Among the lines of work usually open to graduates are the following positions:

Farmers and farm managers; marketing agents; managers of co-operative associations; teachers in colleges, academies and high schools; extension experts in agricultural colleges, railroads and land companies; dairy and creamery experts or operators; government and experiment station lines of research work; horticultural experts; poultry experts; feed inspecting, etc.; county agents; assistants in seed houses; agricultural writing for farm journals; plant pathologists; entomologists trained in agriculture; landscape architects; agricultural engineers; farm machinery specialists; field men for livestock associations; livestock feeding experts; and feed salesmen.

TEACHERS' CERTIFICATES

Certificates valid in Texas and other states may be secured by students of the Texas Technological College. In the School of Agriculture part of the requirements are met by the curricula and part may be met by electives. In some cases extra courses may have to be taken. For complete information see *Department of Education and Psychology* in another part of this catalogue.

TRIPS AND JUDGING TEAMS

In recognition of the value of broader contacts and to secure a better conception of the Agricultural industry, the School of Agriculture recommends and fosters trips of inspection and inter-

collegiate judging contests for advanced students, and offers every assistance to make such trips worth while. These trips are not required and the College does not pay the expenses of the students. In the case of judging teams, the staff members coach and train the teams outside of regular classes throughout the year to supplement class instruction.

INSTRUCTION BY CORRESPONDENCE

For college credit: A limited number of subjects in the Agricultural curricula are open for full or partial credit by correspondence. The general management of such instruction is treated in detail in another part of this catalog under Department of Extension. In those cases where the student may carry out the experiments and practice away from the college, the laboratory material and supplies are to be provided at the student's expense and can usually be secured from the department concerned. Such laboratory expenses are in addition to the correspondence fee. The examinations will be held at the College.

For non-college credit: Non-college credit instruction by correspondence is open to students irrespective of the prerequisites or laboratory requirements, provided it is clearly understood at the time of registration that credit toward a degree is not desired. Such instruction is specifically offered to a limited number of farmers and others who are seriously seeking knowledge in their calling but who do not desire to cover the entire list of subjects required for graduation. The general procedure for securing such instruction is the same as for the regular credit correspondence courses.

ADMISSION REQUIREMENTS

The requirements for admission to the School of Agriculture are essentially the same as those for admission to the other schools of the College. For details of these requirements, refer to "Entrance" on page 30.

The special requirements for admission to the School of Agriculture are as follows:

The fifteen high school units or their equivalent acceptable to meet the entrance requirements are:

1. English 3 units
 2. Mathematics:
 - Algebra 1 unit
 - Plane Geometry 1 unit
- And ten units selected from the following:

3. Social Sciences, such as:

History, civics, economics, sociology, etc., two units if only one is selected in group four, but if two are selected in group four, then one unit from group three...2 or 1 units

4. Science, such as:

Botany, zoology, chemistry, physics, geology, general science, physiology, etc., two units if one only is selected in group three, but if two are selected in group three, then one unit in group four...1 or 2 units

5. Any other standard units, but not more than four can be vocational subjects -----

7 units

Total ----- 15 units

REQUIREMENTS FOR GRADUATION

The student in the School of Agriculture is required to follow a definite series of studies with certain electives. The elective requirements are left to the department in which the major is taken, subject to the approval of the Agricultural faculty.

Specialized courses of study are offered in Animal Husbandry, Agronomy, Horticulture, Agricultural Economics, and Dairy Manufactures. While the curricula as scheduled are believed to be sufficient to cover the needs of the average student, it is possible to combine various portions of the work of two or more of them so that an even more specialized preparation may be secured. Substitutions and combinations will be permitted only when there is good evidence that the student desiring such work is practically certain to follow the branch selected.

A candidate for a degree in Agriculture must have had at least six months' farm, dairy, or other experience in labor or management during the recent years of his life. A statement giving details regarding this experience must be filed in the Dean's office previous to the first term of the candidate's senior year.

UNIFORM FRESHMAN YEAR

All Agricultural students are required to take a uniform course of study in their freshman year. This is to allow the student to become familiar with the courses of instruction and to decide fully as to his qualifications before making election of specific majors. The uniform requirements accordingly include survey courses in the various departments of the School of Agriculture and a series of orientation lectures. In addition to the above the student is offered uniform work in English, Biology, and Mathematics.

DEGREES

The degree of Bachelor of Science in Agriculture will be conferred upon students who satisfactorily complete the prescribed courses in the School of Agriculture. The degree is given with majors in Agronomy, Animal Husbandry, Horticulture, Agricultural Economics, and Dairy Manufactures.

Regularly scheduled work for the degree of Master of Science is not offered at this time. In view of the additions in equipment and facilities being made from time to time, a certain amount of such work may be possible in some of the departments, and correspondence concerning this subject will receive due consideration.

CURRICULUM FOR STUDENTS IN AGRICULTURE

	Term Hours		
	Fall	Winter	Spring
Uniform Freshman Year			
A. H. 131—Types, Market Classes and Breeds of Beef Cattle and Sheep	3		
A. H. 132—Types, Mkt. Classes and Breeds of Hogs & Horses		3	
A. H. 121—Dairy and Dual-purpose Cattle			2
D. M. 131—Principles of Dairy Manufacturing	3		
Hort. 141—Principles of Plant Propagation		4	
Agron. 131—Fundamentals			3
Ag. Eco. 121—Farm Business			2
Bot. 131-2-3—General Botany	3	3	3
Math. A-134-5-6—Agricultural Mathematics	3	3	3
English 131-2-3—Composition and Rhetoric	3	3	3
G. A. 1½1-2-3—Agricultural Lectures	↓	↓	↓
M. T. or P. T. 101-2-3—Military Training or Physical Training	1	1	1
	16½	17½	17½

AGRICULTURAL ECONOMICS AND FARM MANAGEMENT MAJOR

	Term Hours		
	Fall	Winter	Spring
Sophomore Year			
Ag. Eco. 231—Principles of Agricultural Economics			3
Economics 231-2—Introduction to Economics	3	3	
A. H. 231—Farm Poultry			3*
Hort. 233—Vegetable Gardening			3*
Agron. 235—Soils			3*
Draw. 124—Agricultural Drawing	2		
Eng. 2313-14—Special Work on Correct Usage	3	3	
Chem. 141-2-3—Elementary General Chemistry	4	4	4
Elective—Physical or Biological Science	3	3	3
Elective		1	
M. T. or P. T. 201-2-3—Military Training or Physical Training	1	1	1
	16	17	17
*Two of these will be taken.			
Junior Year			
Ag. Eco. 332—Principles of Agricultural Marketing		3	
Ag. Eco. 333—Co-operative Marketing			3
Ag. Eco. 334—Agricultural Statistics	3		
Supervised Electives (Including a total of 12 in Agriculture)	12	12	12
	15	15	15
Senior Year			
Ag. Eco. 411-2-3—Agricultural Economics Seminar	1	1	1
Ag. Eco. 431—Land Economics	3		
Ag. Eco. 432—Farm Management		3	
Ag. Eco. 433—Agricultural Prices and Forecasting			3
G. A. 411—General Agricultural Lectures			1
Supervised Electives	12	12	12
	16	16	17

AGRONOMY MAJOR

	Term Hours		
	Fall	Winter	Spring
Sophomore Year			
Agron. 223—Cotton Classing and Grading		2	
Agron. 235—Soils			3
Hort. 233—Vegetable Gardening			3
A. H. 231—Farm Poultry*			3*
Draw. 124—Agricultural Drawing	2		
Eco. 231-2—Introduction to Economics	3	3	
Ag. Eco. 231—Introduction to Agricultural Economics			3
Eng. 2313-14—Special Work on Correct Usage	3	3	
Chem. 141-2-3—Elementary General Chemistry	4	4	4
Zool. 234-5—Zoology*	3*	3*	
Zool. 236—Introduction to Entomology*			3*
Phys. 244-5—Physics*	4*	4*	
M.T. or P.T. 211-2-3—Military Training or Physical Training	1	1	1
*Note:—The Zoology and the Physics are not required if entrance credits in these subjects were presented. Otherwise one is to be taken. When Physics is chosen the A. H. 231 should fill out the year.			
	17*	17*	17
Junior Year			
Agron. 331—Forage Crops	3		
Agron. 333—Cotton and Other Fiber Crops		3	
Agron. 339—Crop Plant Diseases and Insects and Their Control		3	
Gen. 331-2—Principles of Genetics		3	3
A. H. 342—Livestock Feeding			4
Ag. Eco. 332—Principles of Agricultural Marketing		3	
Ag. Eco. 334—Agricultural Statistics	3		
Botany 233—Taxonomy			3
Bact. 231—Principles of Bacteriology	3		
Speech 131—Principles of Speech	3		
C. E. 230—Surveying			3
Supervised Electives	3	3	3
	15	15	16
Senior Year			
Agron. 411-2—Agronomy Seminar		1	1
Agron. 431—Grain Crops	3		
Agron. 432—Advanced Crop Judging and Grading*	3*		
Agron. 433—Soil Fertility*		3*	
Agron. 434—Principles of Irrigation			3
Agron. 437—Pasture Management		3	
Agron. 435—Dry Farming*	3*		
Agron. 436—Soil Surveying and Terracing			3
Ag. Eco. 432—Farm Management		3	
Genl. Agcl. 411—General Agriculture Lectures			1
Supervised Electives	6	6	6
*Note:—A supervised Elective may be substituted for this subject.			
	15	16	17

ANIMAL HUSBANDRY MAJOR

	Term Hours		
	Fall	Winter	Spring
Sophomore Year			
A. H. 231—Farm Poultry.....			3
A. H. 232—Development of Breeds of Live Stock.....		3	
Hort. 233—Vegetable Gardening.....			3**
Agron. 235—Soils.....			3**
Draw. 124—Agricultural Drawing.....	2		
Eco. 231-2—Introduction to Economics.....	3	3	
Ag. Eco. 231—Introduction to Agricultural Economics.....			3
Eng. 2313-14—Special Work on Correct Usage.....	3	3	
Chem. 141-2-3—Elementary General Chemistry.....	4	4	4
Phys. 244-5—Agricultural Physics**.....	4*	4*	
Zoo. 234-5—Zoology.....	3*	3*	
Zoo. 236—Introduction to Entomology.....			3*
M. T. or P. T. 201-2-3—Military Training or Physical Training.....	1	1	1
	17	18	17
<p>*Note:—The Zoology and the Physics are not required if entrance credits in these subjects were presented. Otherwise one is to be taken.</p> <p>**—Elective.</p>			
JUNIOR YEAR			
Junior Year			
A. H. 341—Animal Nutrition.....			4
Vet. 331—Anatomy of Domestic Animals.....	3		
Vet. 332—Comparative Physiology.....		3	
Vet. 333—Livestock Diseases, Parasites and Sanitation.....			3
Gen. 331-2—Principles of Genetics.....		3	3
Agron. 331—Forage Crops.....	3		
Ag. Eco. 334—Agricultural Statistics.....	3		
Ag. Eco. 332—Principles of Agricultural Marketing.....		3	
Chem. 343-4—Organic Chemistry.....	4	4	
Speech 131—Principles of Speech.....			3
Supervised Electives.....	3	3	3
	16	16	16
Senior Year			
A. H. 411-2—A. H. Seminar.....		1	1
A. H. 431—Beef Production**.....	3		
A. H. 432—Horse Production**.....	3		
A. H. 433—Sheep Production**.....		3	
A. H. 434—Swine Production**.....		3	
A. H. 435—Dairy Production**.....			3
A. H. 437—Poultry Production**.....			3
A. H. 436—Farm Meats**.....		3	
Ag. Eco. 432—Farm Management.....		3	
Agron. 437—Pasture Management.....			3
Gen. Agcl. 411—General Agricultural Lectures.....			1
Supervised Electives.....	9	3	6
	15	16	17

**One of these may be omitted each term and a supervised elective substituted.

DAIRY MANUFACTURES MAJOR

	Term Hours		
	Fall	Winter	Spring
Sophomore Year			
D. M. 232—Dairy Plant Equipment			3
D. M. 233—Cheese Making		3	
Bact. 231—General	3		
Phys. 244-5—General	4	4	
Eco. 231-2—Introduction to Economics	3	3	
Ag. Eco. 231—Principles			3
Chem. 141-2-3—Elementary General	4	4	4
Eng. 2313-14—Special Work on Correct Usage	3	3	
Agron. 235—Soils			3
A. H. 231—Poultry			3
M. T. or P. T. 101-2-3—Physical Training or Military Training	1	1	1
	18	18	17
Junior Year			
D. M. 321—Judging Dairy Products			2
D. M. 331-2—Market Milk	3	3	
D. M. 334—Dairy Plant Inspection			3
D. M. 336—Sanitary Control of Dairy Products		3	
Chem. 343-4—Organic Chemistry	4	4	
Agron. 331—Forage Crops	3		
Gen. 331-2—Principles of Genetics		3	3
A. H. 341—Animal Nutrition			4
Speech 131—Principles of Speech	3		
Supervised Electives*	3	3	3
	16	16	16
Senior Year			
D. M. 411—Seminar	1		
D. M. 421-2—Dairy Technology	2	2	
D. M. 431—Dairy Products Merchandising			3
D. M. 432—Lab. Control of Dairy Products			3
D. M. 433-4—Butter Making	3	3	
D. M. 441-2—Ice Cream	4	4	
D. M. 443—Dairy Plant Management			4
Gen. Ag. 411—General Agriculture Lectures			1
Supervised Electives	6	6	6
	16	15	17

*Except in special cases, the student will elect Ag. Eco. 332-3-4.

HORTICULTURE MAJOR

	Term Hours		
	Fall	Winter	Spring
Sophomore Year			
Hort. 238—Floriculture		3	
Hort. 233—Vegetable Gardening			3
Draw. 124—Agricultural Drawing	2		
Eco. 231-2—Introduction to Economics	3	3	
Eng. 2313-14—Special Work on Correct Usage	3	3	
Ag. Eco. 231—Principles			3
Agron. 235—Soils			3
Chem. 141-2-3—Elementary General Chemistry	4	4	4
Zool. 234-5—Zoology*	3*	3*	
Zool. 236, Introduction to Entomology*			3*
Phys. 244-5—Physics*	4*	4*	
A. H. 231—Farm Poultry*			3*
M. T. or P. T. 211-2-3—Military Training or Physical Training	1	1	1
Note:—The Zoology and the Physics are not required if entrance credits in these subjects were presented. Otherwise one is to be taken. When Physics is chosen the A. H. 231 should fill out the year.	17	18*	17*
Junior Year			
Hort. 341—Orcharding	4		
Hort. 332—Pruning and Spraying		3	
Hort. 439—Orchard Diseases and Insects and Their Control		3	
C. E. 230—Elementary Surveying			3
Gen. 331-2—Principles of Genetics		3	3
A. H. 342—Livestock Feeding			4
Agron. 331—Forage Crops	3		
Speech 131—Principles of Speech	3		
Ag. Eco. 332—Principles of Agricultural Marketing		3	
Ag. Eco. 334—Agricultural Statistics	3		
Supervised Electives	3	3	6
	16	15	16
Senior Year			
Hort. 411-2—Seminar		1	1
Hort. 435-6-7—Advanced Pomology	3	3	3
Hort. 449—Systematic Pomology	4		
Hort. 433—Citriculture			3
Hort. 331—Grapes and Small Fruits		3	
Hort. 420—Horticultural Field Trip		2	
Gen. Ag. 411—General Agricultural Lectures			1
Ag. Eco. 432—Farm Management		3	
Supervised Electives	9	4	9
	16	16	17

LANDSCAPE ARCHITECTURE MAJOR

	Term Hours		
	Fall	Winter	Spring
Sophomore Year			
L. A. 239—Landscape Perspective		3	
Hort. 238—Floriculture		3	
Hort. 233—Vegetable Gardening			3
Bot. 233—Taxonomy			3
Draw. 124—Agricultural Drawing	2		
Arch. 121-2-3—Drawing	2	2	2
C. E. 230—Surveying			3
Gov. 131-2-3—Local Government and Political Parties	3	3	
Eng. 2313-14—Special Work on Correct Usage	3	3	
Speech 131—Principles of Speech			3
Math. 1310—Trigonometry	3		
M.T. or P.T. 211-2-3—Military Training or Physical Training	1	1	1
	14	15	18
Junior Year			
Hort. 321-2-3—Ornamentals	2	2	2
L. A. 331-2-3—Introduction to Landscape Architecture	3	3	3
L. A. 335-6—Landscape Construction		3	3
Agron. 235—Soil, Principles			3
Agron. 330—Grasses		3	
Eco. 231-2-3—Introduction to Economics	3	3	3
Supervised Electives	7	3	4
	15	17	18
Senior Year			
Hort. 411-2—Seminar			1
L. A. 431-2-3—Advanced Design	3	3	3
L. A. 435-6—Planting Design		3	3
L. A. 429—Landscape Architecture Office Practice			2
L. A. 437-8—City Planning		3	3
Hort. 421—Care of Plant Materials	2		
Gov. 330—Business Law	3		
Gov. 220—Parliamentary Law	2		
Hort. Electives	3	3	
Gen. Agcl. 411—General Agriculture Lectures			1
Supervised Electives	3	3	3
	16	16	16

DEPARTMENT OF AGRICULTURAL ECONOMICS
AND FARM MANAGEMENT

Professor Ellsworth

The Agriculture of today, through increasing competition and modern machinery, demands farmers with trained minds and practical experience. With a farming system producing more than can be marketed at a profit, young men who contemplate entering one of the many phases of agriculture are turning to the study of the business aspects underlying the industry. The quality and quantity of products demanded by the consumer together with the time and place of such demand must be studied and met in order to make an income from farming. The foregoing are some of the problems studied in Agricultural Economics.

The primary objective of the Department is to train young men to return to the land as farmers and to enter the varied divisions of agricultural business, to increase their ability to enjoy life on the farm, and more intelligently to take their places as producers and consumers in the increasingly complicated life of America.

The second objective of the Department is to train men to enter the commercial and industrial activities closely allied with farm life. Training is also given for positions in research work with the United States Department of Agriculture.

Throughout all courses in Agricultural Economics stress is placed on the application of principles to conditions in West Texas and the surrounding territory.

Students in the junior and senior years, after completing the standard first and second years in Agriculture, are given much latitude in electives, thus providing for the individual demands of the student. Supervised electives may include additional work in Agriculture and courses in Economics, History, Government, Business Administration, Psychology, English, and in the physical and biological sciences. A well-balanced program leading to a definite goal and fitting the needs of each particular individual will be developed with the student.

Students in other schools of the College are invited to elect work in the department of Agricultural Economics, provided they meet the requirements.

OUTLINE OF COURSES

121. *Farm Business*. 2 class hours.

A survey of the field of farm business and the application of the principles of economics to the solution of its problems. A foundation for the work in economic theory of the second year,

and an introduction to the later and more advanced courses in Agricultural Economics.

231. Principles of Agricultural Economics. 3 class hours.

Prerequisite: Two terms of Economics.

The application of the principles and theories of Economics to Agriculture. The study of price changes and forecasting, and analysis of personal business. Emphasis upon the adjustment of agricultural production to consumer demand.

332. Principles of Agricultural Marketing. 2 class hours, 3 laboratory hours.

Prerequisite: Agricultural Economics 231.

The science of agricultural marketing. The economic fundamentals associated with the sale of farm products. The purchasing of farm supplies. Practice in the study of current changes in market conditions, consumer demand, price relationships, price forecasting.

333. Cooperative Marketing. 2 class hours, 3 laboratory hours.

Prerequisite: Agricultural Economics 332.

Development, importance, and fundamental principles underlying cooperative marketing organizations in the United States, and their application to local conditions. Pooling systems, membership contracts, and national and state laws affecting cooperative marketing.

334. Agricultural Statistics. 2 class hours, 3 laboratory hours.

Prerequisite: Agricultural Economics 231. Mathematics 134-5-6.

A survey of the important sources of agricultural statistics. Principles involved in the collection, analysis, presentation, and interpretation of agricultural data. Practice in statistical methods including sampling, tabulations, averages, dispersion, probability and error, index numbers, trends, cycles, and correlation.

335. Farm Records and Accounts. 2 class hours, 3 laboratory hours.

Prerequisite: Agricultural Economics 231.

Application of principles of accounting to farm business. Formulation and interpretation of farm records, including single enterprise cost accounts, complete cost accounts, and farm inventories.

336. *Rural Life and Organization.* 3 class hours.

Prerequisite: Agricultural Economics 231.

Principles and problems of community organization. The effect of modern means of communication upon farm life. Institutional life in the country. The economic and social bearings of shifts in population. The relation between town and country interests.

411-2-3. *Agricultural Economics Seminar.* 2 class hours.

Prerequisite: Two terms of Agricultural Economics and senior standing.

A discussion of current problems in Agricultural Economics. Topics and assigned readings; reports and discussions.

431. *Land Economics.* 3 class hours.

Prerequisite: Two terms of Agricultural Economics.

Land as a factor of production; classification and utilization of land; land income, tenure, calculation, property rights, credit and taxation.

432. *Farm Management.* 2 class hours, 3 laboratory hours.

Prerequisite: Three terms of Agricultural Economics and 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.

433. *Agricultural Prices and Forecasting.* 2 class hours, 3 laboratory hours.

Prerequisite: Agricultural Economics 334.

The application of statistical methods to the refinement of agricultural prices and forecasting. Original research applied to one agricultural commodity of the student's choice. Sources and use of price and forecasting information.

434. *Farmer Movements in America.* 3 class hours.

Prerequisite: Three terms of Agricultural Economics.

An analysis of the economic conditions and accomplishments of important farmer movements of the state and the nation. Special study of the Grange, the Farmer's Union, the Farm Bureau, agricultural extension and vocational education.

435. *Farm Finance.* 3 class hours.

Prerequisite: Three terms of Agricultural Economics.

Analysis of the credit needs of farmers, the sources of agricultural credits, economic principles affecting the use of credit, principles upon which credit is extended, cost of credit, description of institutions and agencies which extend credit to farmers.

437. *Advanced Agricultural Economics.* 3 class hours.

Prerequisite: Four terms of Agricultural Economics and senior standing.

Designed to clarify and unify the student's thinking on fundamental principles in Agricultural Economics.

438. *Agricultural Economics Problems.* 3 class hours.

Prerequisite: Three terms of Agricultural Economics and senior standing.

Individual research following a definite plan approved by the department.

CORRESPONDENCE COURSES

Correspondence work in the following may be arranged by application to the Department of Extension:

231. *Principles of Agricultural Economics.*

332. *Principles of Agricultural Marketing.*

333. *Cooperative Marketing.*

431. *Land Economics.*

434. *Farmer Movements in America.*

DEPARTMENT OF AGRONOMY

Professor Leidigh. Associate Professor Bower.

The Department of Agronomy offers courses designed to provide instruction in cereal and forage crops production, crop inheritance, breeding and improvement, in pasture management, in soils, in soil fertility, soil survey and terracing, dry-land farming and irrigation farming.

In addition to maintaining demonstration plots to illustrate farm operations and practice, a large variety of farm crops are available as examples of practically all the material that it is feasible to grow in this region. Greenhouse space is also provided for problems and research work in crops and soils.

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

AGRONOMY

131. *The Fundamentals of Crop Production.* 2 class hours, 3 laboratory hours.

Prerequisite: Horticulture 141 and Botany 131.

A survey of the importance and value of crops, their classification, distribution, production and use. Tillage and elementary soils.

Note: Students who have approached this subject in high school in Vocational Agriculture will not be required to repeat unnecessarily work already done.

Fee: \$1.50.

223. *Cotton Classing and Grading.* 1 class hour, 3 laboratory hours.

The theory of uniformity in cotton marketing. The laws and practices in use. Causes of difference in appearance, quality, utility, damage, value. Practice in grading, classing and stapling. •

Fee: \$1.50.

235. *Soils.* 3 class hours.

Prerequisite: One year of Chemistry or registration in Chemistry 143 and Agronomy 131.

Origin, formation and geological relations of soil. Organic matter. Surface features and geological control of vegetation. Methods of tillage and crop adaptation. Drought resistance and general productiveness of soils. Factors that effect chemical and biological activity and the physical improvement of soils.

330. *Grasses.* 3 class hours.

Prerequisite: 1 year of Botany and Horticulture 141.

The fundamentals of lawn, pasture, and greens production. A consideration of their culture, fertilization, utilization, watering and climatic adaptation.

Cannot be credited to students taking Agronomy 331.

331. *Forage Crops.* 2 class hours, 3 laboratory hours.

Prerequisite: Agronomy 131 and 1 year of Botany.

The production, harvesting, storage and use of forage crops, green manure and cover crops, together with a consideration of

miscellaneous hay and pasture crops. The identification of seeds and grasses.

Fee: \$1.50.

332. *Cotton Production*. 2 class hours, 3 laboratory hours.

Prerequisite: Junior standing.

The origin, history, production, composition and uses of cotton. Improvement; cropping systems; the relative value of cotton grades and the factors that determine them. Practice in classing and stapling.

Course offered to Textile Engineering and to Liberal Arts students without the prerequisites for Agronomy 333.

333. *Cotton and Other Fiber Crops*. 2 class hours, 3 laboratory hours.

Prerequisite: Agronomy 131, 223 and 1 year of Botany.

Culture and classification of cotton; improvement of varieties; diseases and insect pests of cotton. World cotton production.

339. *Crop Plant Diseases and Insects and Their Control*. 3 class hours.

Prerequisite: Junior standing in Agriculture.

A study of the most important diseases and insects of field crops. Methods of control.

411-2. *Agronomy Seminar*. 1 class hour, or 2 discussion hours.

Assigned problems in reading in Agronomy with informal discussions, reports and papers.

431. *Grain Crops*. 2 class hours, 3 laboratory hours.

Prerequisite: Agronomy 131 and Genetics 332.

The production, harvesting, storage, grading and use of grain crops. Advanced genetics, breeding and improvement. Commercial plant breeding and seed production.

Fee: \$1.50.

432. *Advanced Crop Judging and Grain Grading*. 1 class hour, 6 laboratory hours.

Prerequisite: Agronomy 331 and 431.

The factors involved in determining the quality of seeds and grains. Practice in grading and competitive judging of seeds and grains.

Fee: \$1.50.

433. *Soil Fertility*. 2 class hours, 3 laboratory hours.

Prerequisite: Agronomy 235.

A complete study of crop requirements and adaptation to climate and soil. The nature and sources of plant foods. Exhaustion of soils and increase of soil fertility. The liberation of mineral plant foods.

Fee: \$1.50.

434. *Irrigation and Drainage*. 3 class hours. Field trips.

Prerequisite: Surveying, Agronomy 235 and Senior standing.

Fundamental principles and practices of irrigation. Irrigation projects, and the irrigated home garden and orchard.

435. *Dry Land Farming*. 3 class hours. Field trips.

Prerequisite: Agronomy 235.

Principles of profitable farming under light rainfall conditions. The college equipment and local conditions offer opportunities for experimentation.

436. *Soil Survey and Terracing*. 2 class hours, 3 laboratory hours.

Prerequisite: Drawing, Surveying and Agronomy 235.

The soils of the United States and methods of mapping soil areas, with special attention to the study of West Texas soils in the field. Terracing. Methods of maintaining the productive power of soils.

437. *Pasture Management*. 3 class hours. Field trips.

Prerequisite: Agronomy 331.

Ranching and general farming. Native forage plants. Injurious plants and their control. The carrying capacity of pastures. Pasture conservation. Range management.

438. *Cotton and Grain Sorghum Genetics*. 2 class hours, 3 laboratory hours.

Prerequisite: Genetics 332 and Agronomy 331, 333.

A continuation of the prerequisite subjects. Genetics research and practical crop plant improvement, particularly from the standpoint of forage plants and cotton.

439. *Agronomy Problems*. 3 class hours.

Prerequisite: Senior standing.

A study of recent problems in the field of Agronomy. Lectures, research and papers.

Correspondence

The following may be given by correspondence:

*131. *The Fundamentals of Crop Production.*

*235. *Soils.*

*331. *Forage Crops.*

Laboratory equipment is necessary for subjects marked*.

AGRICULTURAL ENGINEERING

434-5. *Farm Machinery.* 2 class hours, 3 laboratory hours.

Prerequisite: Physics 244.

The practical operation of farm machinery. Farm motors, gas engines, wind engines, electric motors, and equipment.

436. *Farm Structures.* 2 class hours, 3 laboratory hours.

Prerequisite: Drawing 124.

Construction and repairs of farm improvements; ventilation, heating, lighting, sewage disposal.

GENERAL AGRICULTURE

1½-2-3. *Agricultural Lectures.* 1 class hour.

A survey of the field of Agriculture. Orientation lectures. One lecture a week by the Dean and various faculty members.

Required of all freshmen students in Agriculture.

411. *Agricultural Lectures.* 1 class hour.

Prerequisite: Senior standing in the School of Agriculture.

Brief consideration of the broad fundamental relationship of farmers and their co-workers with each other and of agricultural communities with other communities.

AGRICULTURAL EDUCATION

331. *Rural Education.* 3 class hours.

Practices, tendencies and improvements of rural schools. The relation of rural schools to rural life problems. An outline of lessons. Possibilities of materials. A course for students who expect to be rural teachers.

DEPARTMENT OF ANIMAL HUSBANDRY

Professor Stangel. Associate Professor Mowery
Assistant Professor Harbaugh.

The Department of Animal Husbandry provides instruction designed to train students to select, breed, feed, manage and mar-

ket farm and ranch animals and poultry. The live stock and poultry belonging to the department at present include the major breeds of beef cattle, two breeds of dairy cattle, three breeds of hogs, two breeds of horses, three breeds of sheep, and three breeds of poultry, all of which are maintained and used primarily for class instruction. More live stock is being added as state appropriations become available.

The equipment of the Department includes a live stock judging pavilion and a fully equipped modern dairy barn with space for sixty head of stock and box stalls for cows on test. The barn is so constructed that it can be enlarged to house one hundred cows. Other equipment includes a concrete silo of one hundred and forty-ton capacity; temporary shelters for cattle and horses; portable houses for hogs; a forty-acre plant, fenced and cross fenced for sheep; a poultry plant with twelve production houses on a ten-acre plot fenced and cross-fenced.

The Department also has veterinary apparatus and complete apparatus for instruction in milk production and in poultry breeding and incubation.

ANIMAL HUSBANDRY

121. *Dairy and Dual-Purpose Cattle.* 1 class hour, 3 laboratory hours.

Brief survey of the dairy cattle industry. Description and value of types. History and characteristics of breeds. Outstanding breeders and individuals. Breed organizations and publications. Scorecard and comparative judging.

Fee: \$1.00.

131. *Types, Market Classes, and Breeds of Beef Cattle and Sheep.* 2 class hours, 4 laboratory hours.

Brief survey of beef cattle and sheep industries. Description and value of types. Classifications. Slaughtering, carcasses and packing house by-products. Marketing. Wools and wool growing. History and characteristics of breeds. Outstanding breeders and individuals. Breed organizations and publications. Scorecard and comparative judging.

Fee: \$1.50.

132. *Types, Market Classes, and Breeds of Hogs and Horses.* 2 class hours, 4 laboratory hours.

Brief survey of hog and horse industries. Types and classification. Hog slaughtering, carcasses and packing house by-products. Marketing. Horse anatomy. Market classes of mules. History and characteristics of breeds. Outstanding breeders and individuals. Breed organizations and publications. Scorecard and comparative judging.

Fee: \$1.50.

231. *Farm Poultry.* 2 class hours, 3 laboratory hours.

The poultry industry. Classes, breeds and varieties. Judging. Culling, breeding, incubating, brooding, feeding, housing, diseases and marketing.

Fee: \$1.50.

232. *Development of Breeds of Live Stock.* 3 class hours.

Prerequisite: Animal Husbandry 121 and 131-2.

The development of the breeds of cattle, horses, sheep, and swine. Special emphasis upon the work of recent prominent breeders and the merit of individual animals.

321. *Advanced Dairy Cattle Judging.* 6 laboratory hours.

Prerequisite: Animal Husbandry 121, and junior standing.

Contrasting study and comparative judging of dairy breeds. Selection of dairy animals for breeding and showyard purposes. Inspection trips to farm herds and leading dairy shows.

322. *Incubation.* 1 class hour, 3 laboratory hours.

Prerequisite: Animal Husbandry 231.

Selection and care of eggs for hatching. Operating of incubator. Removing the hatch.

Fee: \$1.50.

323. *Brooding.* 1 class hour, 3 laboratory hours.

Prerequisite: Animal Husbandry 231.

Operation of a brooder for four weeks. Management and feeding of chicks until six weeks of age.

Fee: \$1.50.

331. *Advanced Live Stock Judging.* 9 laboratory hours.

Prerequisite: Animal Husbandry 231 and Junior standing.

Contrasting study and comparative showyard judging of breeds of beef cattle, horses, sheep and swine. Selection of breeding and market animals. Inspection trips to farm herds, flocks and leading livestock shows.

333. *Advanced Poultry Judging.* 1 class hour, 6 laboratory hours.

Prerequisite: Animal Husbandry 231 and Junior standing.

History and characteristics of the standard breeds and varieties of poultry. Scoring and judging of exhibition and utility fowls. Inspection trips to farm flocks and poultry shows.

341. *Animal Nutrition*. 3 class hours, 3 laboratory hours.

Prerequisite: Chemistry 344.

Chemical composition of plant and animal body. Digestion and metabolism. Digestibility, energy and manurial value of feeds. Feed requirements and calculating rations for maintenance, growth, fattening, milk and wool production, and work. Feeding standards. Study of various feeding stuffs. Practice in feeding of laboratory animals.

Fee: \$1.50.

342. *Live Stock Feeding*. 3 class hours, 3 laboratory hours.

Prerequisite: One year of Chemistry.

A modification of course 341, together with a study of the practical feeding of beef and dairy cattle, hogs, horses and sheep.

Fee: \$1.50.

411-2. *Seminar*. 1 class hour.

Prerequisite: Senior standing.

Assigned selected subjects. Review of recent investigations.

431. *Beef Production*. 2 class hours, 3 laboratory hours.

Prerequisite: Animal Husbandry 341 and Genetics 332.

Beef cattle situation. Breeding, feeding and marketing. Pure-bred herd and range management. Fitting for show and showing. Disease control.

Fee: \$1.50.

432. *Horse Production*. 2 class hours, 3 laboratory hours.

Prerequisite: Animal Husbandry 341 and Genetics 332.

Review of the horse and mule situation. Breeding, feeding, breaking and training, stabling, harness and harnessing, and shoeing. Fitting for sale and show. Caring for brood mare and foal. Caring for stallion and jack. Diseases and sanitation.

Fee: \$1.50.

433. *Sheep Production*. 2 class hours, 3 laboratory hours.

Prerequisite: Animal Husbandry 341 and Genetics 332.

Review of sheep situation. Adaptation of breeds. Breeding, feeding, shearing and marketing. Farm flock and range management. Fitting for show and showing. Parasites and diseases.

Fee: \$1.50.

434. *Swine Production*. 2 class hours, 3 laboratory hours.

Prerequisite: Animal Husbandry 341 and Genetics 332.

Review of hog situation. Breeding, feeding, housing, and marketing. Care and feeding of the breeding herd. Fitting for

show and showing. Killing and curing products. Sanitation and disease control.

Fee: \$1.50.

435. *Dairy Production*. 2 class hours, 3 laboratory hours.

Prerequisite: Animal Husbandry 341 and Genetics 332.

Review of the dairy industry. Breeding; feeding for growth, maintenance, and milk; marketing. Dairy barn construction and sanitation. Advanced registry and herd records.

Fee: \$1.50.

436. *Farm Meats*. 1 class hour, 6 laboratory hours.

Prerequisite: Animal Husbandry 331 and Veterinary Science 331.

Study of cattle, hogs and sheep before slaughter. Special emphasis upon form, quality and condition as affecting dressing percentage and quality of carcass. Killing, dressing, cutting and curing.

Fee: \$1.50.

437. *Poultry Production*. 2 class hours, 3 laboratory hours.

Prerequisite: Animal Husbandry 231, Animal Husbandry 341, and Genetics 332.

Review of poultry industry. Breeding, hatching, brooding, feeding for egg production and market, marketing and housing. Disease control, parasites and sanitation.

Fee: \$1.50.

438. *Animal Genetics*. 2 class hours, 3 laboratory hours.

Prerequisite: Genetics 332.

A continuation of Genetics 331 and 332, from the standpoint of farm live stock, poultry and laboratory animals.

Fee: \$1.50.

439. *Research Problems in Animal Husbandry*. 3 class hours.

A study of recent problems in the field of Animal Husbandry. Lectures and research.

441. *Livestock Management*. 3 class hours, 3 laboratory hours.

Prerequisite: Animal Husbandry 342 and Genetics 332.

A modification of courses 431, 432, 434, and 435.

VETERINARY SCIENCE

331. *The Anatomy of Domestic Animals*. 2 class hours, 3 laboratory hours.

The skeletal, muscular, digestive, circulatory, respiratory, and

reproductive organs of farm animals. Lectures, with demonstrations and laboratory.

Fee: \$1.50.

332. *Comparative Physiology.* 3 class hours.

Prerequisite: Veterinary Science 331.

The physiology of the blood, lymph, circulatory, and respiratory systems, ductless glands, digestion, absorption, and organs of elimination. Lectures, with demonstrations.

333. *Live Stock Diseases, Parasites, and Sanitation.* 2 class hours, 3 laboratory hours.

Prerequisite: Veterinary Science 332.

The common infectious and non-infectious diseases. Sanitation and hygiene. Common external and internal parasites of farm animals.

Fee: \$1.50.

The following courses may be given by correspondence:

121. *Dairy and Dual-Purpose Cattle.* (Class work only).

131. *Types, Market Classes and Breeds of Beef Cattle and Sheep.* (Class work only.)

132. *Types, Market Classes and Breeds of Hogs and Horses.* (Class work only).

231. *Farm Poultry.* (Class work only).

232. *Development of Breeds of Livestock.*

341. *Animal Nutrition.*

342. *Livestock Feeding.*

DEPARTMENT OF DAIRY MANUFACTURES

Associate Professor Renner

The Department of Dairy Manufactures, in addition to offering a liberal training in the science of agriculture, is designed to train students to become plant operators, superintendents or managers of milk, butter, cheese or ice cream plants, as well as to give instruction in the fundamentals of dairy practice to students who are not intending to specialize in dairy manufacturing. The department also offers courses designed to train students for city, state or federal inspectors of dairy products.

Equipment is available for the teaching of fundamental work, and local milk, ice cream and butter plants are available for practical laboratory work in the courses offered.

The Department maintains a small dairy plant for student instruction. It is equipped to handle market milk, cheese and butter manufacture. In addition to the plant equipment, a dairy laboratory is maintained with sufficient scientific equipment to make various tests on the different dairy products. This department is in a position to make tests for individual citizens of the State at actual cost of performing the test.

Students specializing in this department should have at least six months' practical experience before graduation. The department will assist worthy students in securing summer employment in creameries, milk plants or ice cream factories. This requirement may displace that of general farm experience noted in the requirements for graduation.

131. *Principles of Dairy Manufacturing.* 2 class hours, 3 laboratory hours.

A survey of the field of dairy manufactures. Composition of milk, cow testing, semi-official testing work, lactometers, acidity, the Babcock test, separators.

Fee: \$1.50.

232. *Dairy Plant Equipment.* 2 class hours, 3 laboratory hours.

Prerequisite: Physics 244-5.

A study of the equipment used in the dairy plant.

Fee: \$1.50.

233. *Cheese Making.* 2 class hours, 3 laboratory hours.

Prerequisite: Dairy Manufactures 131.

The history and development of the cheese industry. Classification and manufacture of various types of cheese.

Fee: \$1.50.

321. *Judging of Dairy Products.* 2 class hours.

Scoring butter, cheese, ice cream and milk.

Fee: \$1.50.

330. *The Farm Dairy.* 2 class hours, 3 laboratory hours.

Prerequisite. Dairy Manufactures 131.

A study of market milk ordinances, cream pools, the manufacture of farm dairy butter and cheese.

Fee: \$1.50.

331-2. *Market Milk*. 2 class hours, 3 laboratory hours.

Prerequisite: Dairy Manufactures 131.

A study of the distribution of fluid milk. Food value and chemistry of milk, pasteurization, bottling and retailing. The production of certified milk. Cost studies.

Fee: \$3.00.

334. *Dairy Plant Inspection*. 2 class hours, 3 laboratory hours.

Prerequisite: Dairy Manufactures 332.

A study of milk ordinances. Sanitary regulations. Local, state and federal regulation of dairy products.

Fee: \$1.50.

336. *Sanitary Control of Dairy Products*. 2 class hours, 3 laboratory hours.

Prerequisite: Bacteriology 231 and Dairy Manufactures 131.

Types of bacteria present in milk and milk products. Various methods of control.

Fee: \$1.50.

411. *Seminar*. 1 class hour.

Prerequisite: Senior standing.

A review of current dairy literature and special papers on dairy products.

421-2. *Dairy Technology*. 2 class hours.

Prerequisite: Dairy Manufactures 233, 332, 433, 441.

The manufacture of condensed milk and milk powder. The commercial use of whey, buttermilk and casein.

431. *Dairy Products Merchandising*. 2 class hours, 3 laboratory hours.

Prerequisite: Senior standing.

The merchandising of butter, cheese, ice cream and milk. Advertising, salesmanship, credits, special practices.

Fee: \$1.50.

432. *Laboratory Control of Dairy Products*. 2 class hours, 3 laboratory hours.

Prerequisite: Organic Chemistry. Dairy Manufactures 131. Laboratory technique as applied to the manufacture of dairy products.

Fee: \$1.50.

- 433-4. *Butter Making*. First term, 3 class hours; second term, 1 class hour, 6 laboratory hours.

Prerequisite: Dairy Manufactures 131. Organic Chemistry.

History and development of the butter industry. Sweet and sour cream, starters, pasteurization, neutralization, churning, washing, salting and working of butter, market classification, butter defects, composition of butter. Actual plant practice in the manufacture of butter, cream grading, neutralization, starters.

Fee: \$3.00.

439. *Dairy Manufacturing Problems*. 9 laboratory hours.

Prerequisite: Senior or graduate standing.

A scientific study of special phases of the dairy manufacturing industry.

- 441-2. *Ice Cream Making*. 2 class hours, 6 laboratory hours.

Prerequisite: Dairy Manufactures 131. Organic Chemistry.

The history and development of the ice cream industry. Ice cream ingredients, standardization, calculation of ice cream mixes, processing, freezing, flavors.

Fee: \$1.50.

443. *Management of Dairy Manufacturing Plants*. 3 class hours, 3 laboratory hours.

Prerequisite: Senior standing.

The organization and control of the dairy manufacturing plant from a business standpoint.

Fee: \$1.00.

DEPARTMENT OF HORTICULTURE AND GENETICS

Professor Mahoney. Associate Professor Russell

The Department of Horticulture and Genetics offers instruction in the basic principles underlying plant propagation, orcharding, olericulture, floriculture, ornamentals, and landscape architecture. The science of Genetics is taught in this department particularly stressing its application to plant and animal improvement. In addition to instruction in these special subjects, the curriculum offers work leading to a well-rounded education.

The purpose of the curriculum in Landscape Architecture is to equip the student for practical work. The course of study gives instruction in the design, construction, planting, development and maintenance of farmsteads, estates, private grounds, parks, playgrounds,, subdivisions, golf courses and city planning. Emphasis is laid upon the importance of home gardens and the beautification of farms.

The equipment of the department includes the first unit of a modern, well-equipped greenhouse. A large nursery is being maintained for instruction and practice in plant propagation. Soon after the establishment of the College a ten-acre orchard and vineyard was planted, which also includes small fruits and strawberries. All varieties of deciduous and citrus fruits and grapes are available for study.

The beautification of the campus, which is under way, offers abundant instruction to the student in planning, planting, training, and identification of trees, shrubs, flowering shrubs, and flowering annuals and perennials. A twenty-acre arboretum has been started on the campus and is used for the study of ornamentals and landscape architecture.

Field trips are an integral part of the work. A ten-day field trip is made in midwinter to the Rio Grande Valley. Surveys are made of field practices in vegetable growing and fruit production.

HORTICULTURE

131. Home Gardening. 2 class hours, 3 laboratory hours.

The propagation, planting and care of the most common trees, shrubs, roses, and herbaceous perennials. Soils and fertilizers. Most common methods of budding and grafting. Practical work in greenhouse and nursery. For non-agricultural students interested in home and garden improvement.

Fee: \$1.50.

141. Plant Propagation. 3 class hours, 3 laboratory hours.

Prerequisite: Botany 131-2-3.

A study of plant propagation, greenhouse and nursery practice.

Note: Students who have approached part of this subject in high school Vocational Agriculture will not be required to repeat unnecessarily work already covered.

Fee: \$1.50.

233. Vegetable Gardening. 3 class hours.

Prerequisite: Horticulture 141.

Planning, planting, and operating a truck garden. The home

garden. Fertilization and spraying of garden; erection of cold frames and hot beds.

238. Principles of Floriculture. 2 class hours, 3 laboratory hours.

Prerequisite: 1 year of Botany, Horticulture 141.

The basic fundamental principles underlying flower production.

Fee: \$1.50.

239. Floriculture. 2 class hours, 3 laboratory hours.

The culture and use of annuals, perennials, bulbous plants and flowering shrubs especially adapted to this region. General beautification of the home grounds. Practical work in the greenhouse and on the campus.

For non-agricultural students.

Fee: \$1.50.

321. Ornamentals. 2 class hours, and field trips.

Identification, characteristics and uses of hardy shrubs. For Landscape Architecture students.

322. Ornamentals. 2 class hours, and field trips.

Identification, characteristics and uses of the most common types of evergreens and deciduous trees.

323. Ornamentals. 2 class hours, and field trips.

Identification, characteristics and uses of hardy perennials, bulbs, roses, and some of the most common annuals.

331. Grapes and Small Fruits. 2 class hours, 3 laboratory hours.

Prerequisite: Horticulture 141.

Grapes and small fruits. Climatic, soil and water requirements. Propagation. Pruning. Varieties and cultural practices. Inheritance, selection, advanced genetics.

Fee: \$1.50.

332. Pruning and Spraying. 3 class hours, and field trips.

Prerequisite: Horticulture 141.

The principles of pruning fruit trees, ornamentals, grapes, and small fruits. Study of sprays. Methods of spraying, spraying calendars, control of insects, fungus, and bacterial diseases of orchard and truck gardens.

333. *Sub-Tropical Pomology*. 3 class hours.

Prerequisite: Horticulture 141 and 341.

Fruits and nuts of commercial importance in the Southwest, such as persimmon, pecan, avocado, fig, olive, walnut, and dates. Selection and breeding.

337. *Landscape Appreciation*. 3 class hours.

The history of gardening. Basic principles of landscape design for the home grounds, small suburban homes, farm homes. The principal trees and shrubs for home grounds.

341. *Orcharding*. 3 class hours, 3 laboratory hours.

Prerequisite: Horticulture 141.

The principles of fruit production.

Fee: \$1.50.

411-2. *Seminar in Horticulture*. 1 class hour.

Prerequisite: Senior standing.

Assigned problems and readings in Horticulture, with informal discussions, oral reports and papers.

420. *Field Trip in Horticulture*.

Prerequisite: Junior standing.

Ten-day trip to the Rio Grande Valley. Vegetables, orcharding, irrigation, picking and packing of fruit and vegetables, marketing. Field surveys and reports.

421. *Care of Plant Materials*. 2 class hours.

Prerequisite: Horticulture 141.

Planting, pruning, shearing, spraying and transplanting of ornamentals.

For Landscape Architecture students.

430. *Horticulture Problems*. 3 class hours.

Prerequisite: Horticulture 141, 238, 321, 323.

Special assigned problems and research in Horticulture.

Lectures, consultation and research.

432. *Commercial Floriculture*. 2 class hours, 3 laboratory hours.

Prerequisites: Horticulture 141, 238, 321, 323.

Essentials of successful flower growing. Propagation of ornamentals in nursery practice. For advanced students in Horticulture entering commercial flower production and nursery work.

Fee: \$1.50.

434. *Citriculture*. 3 class hours.

Prerequisite: Horticulture 341 and Genetics 332.

The commercial production of citrus fruits, adaptation, soil requirements, temperature, orchard heating and irrigation. Genetic selection and variety improvement. Senior Horticulture students take a trip to the Rio Grande Valley.

435-6-7. *Advanced Pomology*. 3 class hours.

Prerequisite: Senior standing in Horticulture.

The principles underlying fruit production, temperature, moisture, irrigation, nutrition, fruit setting, advanced genetics of the pomological fruits. Organization and management in fruit production.

439. *Orchard Diseases and Insects and Their Control*. 3 class hours.

Prerequisite: Junior standing in Horticulture.

The most important diseases and insects of orchard and garden. Methods of control.

449. *Systematic Pomology*. 3 class hours, 3 laboratory hours.

Prerequisite: Horticulture 341.

Nomenclature, variety description, classification, climatic and regional adaptation. Practice in describing and identifying varieties of fruits, judging and planning exhibits.

Fee: \$1.50.

LANDSCAPE ARCHITECTURE

331-2-3. *Landscape Design*. 1 class hour, 6 laboratory hours..

Prerequisite: Drawing 124 and Architecture 123.

Principles of landscape design; the city home, country estates, gardens, small city parks and playgrounds.

335-6. *Landscape Construction*. 2 class hours, 3 laboratory hours.

Prerequisite: Civil Engineering 230, or its equivalent.

Preparation of grading plans, specifications, reports and working drawings.

429. *Office Practice in Landscape Architecture*. 2 class hours.

Prerequisite: Senior standing in Landscape Architecture.

Professional ethics and practice, specifications, contracts and organization.

431-2-3. *Advanced Landscape Design*. 1 class hour, 6 laboratory hours.

Prerequisite: Landscape Architecture 333, 336.

Civic properties, schools, rural parks, golf courses, estates, subdivisions. Based on topographical surveys.

435-6. *Planting Design*. 1 class hour, 6 laboratory hours.

Prerequisite: Horticulture 321, 322, 323 and Landscape Architecture 333.

Theory of arrangement. Planting plans for all types of problems.

437-8. *City Planning*. 1 class hour, 6 laboratory hours.

Principles underlying the physical development of communities. Zoning. City, village and rural improvement. Principles of successful "master plan."

GENETICS

331-2. *Principles of Genetics*. First term, 3 class hours; second term, 2 class hours, 3 laboratory hours.

Prerequisite: Mathematics 134-5-6, Botany 131-2-3 and Agricultural Economics 334.

A study of heredity and variation of both plants and animals. History. The chromosome theory in higher animals, poultry and insects. Factorial theory in plants. Biometry as applied to genetic data stressing economic plants and animals. Problems.

The following courses may be given by correspondence:

141. *Plant Propagation*.

*232. *Vegetable Gardening*.

*331. *Grapes and Small Fruits*.

434. *Citriculture*.

337. *Landscape Appreciation*.

Note: In correspondence instruction access to equipment is necessary in the case of courses marked *.

SCHOOL OF HOME ECONOMICS

MARGARET W. WEEKS, DEAN

PURPOSE

The School of Home Economics of the Texas Technological College offers to young women a college education leading to the degree of Bachelor of Science. The curricula are arranged to meet the needs of those young women who desire a good foundation in the subjects relating to the social, scientific, artistic and economic problems of the home; for those who wish to prepare themselves for teaching home economics in high schools of the State, and for those who desire to prepare themselves for such vocations as Interior Decorators and Costume Designers.

The School of Home Economics also aims to give instruction to students registered in other schools of the College who may elect Home Economics courses as a part of a liberal education.

BUILDINGS

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

The Home Management House, located near the Home Economics Building, is a two-story brick building in harmony with the Spanish type of architecture adopted for the College buildings. The function of the house is threefold: to serve as a home where the students may put into practice the knowledge gained in the classroom, to serve as a laboratory for work in home furnishings, and to be used as a center for social activities of the School of Home Economics. The Cafeteria is used as a laboratory for students interested in large quantity cookery and in school lunchroom work.

FIELD FOR GRADUATES

The School of Home Economics has been approved by the State and Federal Boards of Vocational Education. Graduates of the School of Home Economics who satisfactorily complete the work of the teacher training major will receive in addition to the B. S. Degree the Smith-Hughes Home Economics Certificate. This certificate is awarded by the State Department of Education and entitles the holder to teach Home Economics under the Smith-Hughes plan.

Positions other than teaching are open to graduates. These depend upon the major selected and are given in detail in the description of each major.

MAJOR LINES OF WORK

1. *General Home Economics.* Designed to meet the needs of the student who wishes general training for the home rather than for professional use.

2. *Teacher Training in Home Economics.* For the student who wishes to prepare herself for the profession of teacher of vocational home economics in the high schools of the State.

3. *Foods and Nutrition.* For the student who wishes more intensive training in food and nutrition than is given in the preceding majors. A student may prepare herself by choosing suitable electives for such positions as teacher of foods and nutrition; dietitian; manager of institutional lunchroom; nutrition worker in organizations promoting health.

4. *Clothing and Textiles.* Intended for the student who wishes more intensive training in clothing and design. A student with this major may prepare herself for such positions as teacher of clothing and applied design; dressmaker; milliner; textile buyer or shoppers' adviser.

5. *Applied Art.* Intended for the student who has special talent in art and who wishes to prepare herself for such vocations as costume designer, interior decorator or textile designer.

ENTRANCE REQUIREMENTS

Admission requirements to the School of Home Economics of the Texas Technological College are similar to the general admission requirements of other schools in the College.

Admission may be by any one of the three methods following:

- (a) Upon presentation of a certificate of graduation from an accredited secondary school.
- (b) Upon successful examination in the entrance subjects.
- (c) Upon individual approval.

Fifteen units are required for admission to full freshman standing, as follows:

- | | |
|--|---------|
| 1. English | 3 units |
| 2. Foreign Language | 2 units |
| 3. Mathematics | 2 units |
| Plane Geometry | 1 |
| Algebra | 1 |
| 4. (a) History, civics, economics, sociology, or | |

(b) Botany, zoology, chemistry, physics, geology, general biology, etc.	
Two from either	2 units
5. From the group not chosen under (4)	1 unit
6. From any accredited high school sub- jects, not more than four of which may be vocational subjects	5 units
Total	15 units

Students who have not the units in foreign language to present for entrance will schedule one year of foreign language in order to make up the deficiency.

A candidate over twenty-one years of age, who has not recently attended school, and who cannot satisfy the entrance requirements in full may be admitted to the freshman class without examination, provided she can satisfy the Dean of the School of Home Economics that she can profit by the instruction to be given in the freshman class.

REQUIREMENTS FOR GRADUATION

General Home Economics Major

	Term Hours
English	18
History	9
Foreign Language	9
Chemistry	12
Biology	15
Mathematics	3
Physics	6
Government	8
Sociology	9
Education and Psychology	9
Foods and Nutrition	18
Clothing and Textiles	12
Applied Arts	9
General Home Economics	18
Home Economics Electives	12
General Electives	18
Total	185

Teacher Training Major

	Term Hours
English	18
History or Foreign Language	9
Biology	15
Chemistry	18
Mathematics	3
Education and Psychology	9

Home Economics Education	9
Government	8
Sociology or Economics	9
Clothing and Textiles	21
Applied Arts	10
Foods and Nutrition	24
General Home Economics	17
Electives	15
Total	185

Clothing and Textiles Major

	Term Hours
English	18
History	9
Foreign Language	9
Biology	15
Chemistry	12
Mathematics	3
Physics	6
Education and Psychology	9
American Government	8
Sociology	9
Economics	9
Foods and Nutrition	9
Home Economics Electives	9
Clothing and Textiles	30
Applied Arts	10
General Electives	15
General Home Economics	5
Total	185

Foods and Nutrition Major

	Term Hours
English	18
History or Foreign Language	9
Biology	15
Chemistry	24
Physics	6
Mathematics	3
Education and Psychology	9
American Government	8
Sociology or Economics	9
Foods and Nutrition	33
Clothing and Textiles	9
Applied Arts	4
General Electives	15
Home Economics Electives	18
General Home Economics	5
Total	185

Applied Arts Major

	Term Hours
English	18
History	9
French	9
Chemistry	12
Physics	6
American Government	8
Sociology or Economics	9
Foods and Nutrition	3
Clothing and Textiles	12
Mathematics	3
Drawing	9
Applied Arts	55
Electives	18
Home Economics Electives	12
Home Economics 121	2
Total	185

Two years of Physical Education are required for graduation from any major.

Students who enter with two units of foreign language may schedule the same foreign language in which they have high school credit or a new foreign language. In the former case they should schedule Foreign Language 231-2-3; in the latter they should schedule Foreign Language 131-2-3.

Curriculum for General Home Economics Major

Freshman Year	Term Hours
English 131-2-3	9
Foreign Language 231-2-3	9
Zoology 134-5-6	9
Mathematics 1300	3
Clothing 131-2-3 or Foods 131-2-3	9
Applied Arts 131	3
General Home Economics 121	2
Applied Arts 111	1
Total	45

Sophomore Year	Term Hours
English 231-2-3	9
History 131-2-3	9
Chemistry 141-2-3	12

Psychology 230-232	6
Home Economics 331	3
Foods and Nutrition 131-2-3 or Clothing 131-2-3	9
Total	48

Junior Year	Term Hours
Foods and Nutrition 231-2-3	9
Design 231	3
Clothing 231-2	6
Bacteriology 232-3	6
Physics 334-5	6
Government 331-2	6
Government 220	2
Home Economics 331	3
Home Economics 332	3
Electives	3
Total	47

Senior Year	Term Hours
Home Economics 461	6
Home Economics 431	3
Sociology or Economics 231-2-3	9
Foods and Nutrition Electives	9
Clothing and Textile Electives	9
Applied Arts 431	3
General Electives	6
Total	45

Curriculum for Teacher Training in Home Economics Major

Freshman Year	Term Hours
English 131-2-3	9
Zoology 134-5-6	9
Mathematics 1300	3
General Home Economics 121	2
Applied Arts 131	3
Clothing and Textiles 131-2-3 or Foods and Nutrition 131-2-3	9
Applied Arts 111	1
Electives	9
Total	45

Sophomore Year	Term Hours
English 231-2-3	9
History 131-2-3 or Foreign Language 131-2-3	9
Chemistry 141-2-3	12
Foods 131-2-3 or Clothing 131-2-3	9
Psychology 230 or 231	3
Psychology 232	3
Education 239	3
Total	48

Junior Year	Term Hours
Organic Chemistry 331-2	6
American Government 331-2	6
American Government 220	2
Foods and Nutrition 231-2-3	9
Bacteriology 232-3	6
Home Economics 333	3
Home Economics 331	3
Home Economics 332	3
Applied Arts 231	3
Clothing 231-2	6
Total	47

Senior Year	Term Hours
Sociology or Economics 231-2-3	9
Home Economics Education 431-2-3	9
Clothing and Textiles 331	3
Clothing and Textiles 332	3
Applied Arts 431	3
Foods and Nutrition 331 or 334	3
Foods and Nutrition 432	3
Home Economics 461	6
Electives	6
Total	45

Curriculum for Foods and Nutrition Major

Freshman Year	Term Hours
English 131-2-3	9
History 131-2-3 or Foreign Language 131-2-3	9
Chemistry 141-2-3	12
Foods and Nutrition 131-2-3	9
Applied Arts 131	3
Applied Arts 111	1

Mathematics 1300	3
Home Economics 121	2
Total	48

Sophomore Year	Term Hours
English 231-2-3	9
Zoology 134-5-6	9
Clothing 131-2-3	9
Foods and Nutrition 231-2-3	9
Home Economics 332	3
Psychology 230-232	6
Total	45

Junior Year	Term Hours
Chemistry 331-2	6
Physics 334-5	6
Bacteriology 232-3	6
Government 331-2	6
Government 220	2
Foods and Nutrition 331	3
Foods and Nutrition 332	3
Foods and Nutrition 334	3
Electives	9
Total	44

Senior Year	Term Hours
Chemistry 437-438	6
Economics or Sociology 231-2-3	9
Foods and Nutrition 431	3
Foods and Nutrition 432	3
Foods and Nutrition 433	3
Home Economics Electives	12
Electives	12
Total	48

Curriculum for Clothing and Textile Major

Freshman Year	Term Hours
English 131-2-3	9
French 131-2-3	9
Zoology 134-5-6	9
Mathematics 1300	3

Applied Arts 131	3
Home Economics 121	2
Clothing 131-2-3	9
Total	44

Sophomore Year	Term Hours
English 231-2-3	9
History 131-2-3	9
Chemistry 141-2-3	12
Applied Arts 231	3
Clothing 231-2	6
Foods and Nutrition 131-2-3	9
Total	48

Junior Year	Term Hours
Government 331-2	6
Government 220	2
Clothing 331	3
Clothing 332	3
Clothing 333	3
Bacteriology 232-3	6
Physics 334-5	6
Home Economics 332	3
Psychology 230 or 231	3
Psychology 232	3
Education 239	3
Electives	6
Total	47

Senior Year	Term Hours
Sociology 231-2-3	9
Economics 231-2-3	9
Applied Arts 431	3
Clothing 431	3
Clothing 432 or 433	3
General Electives	6
Home Economics Electives	12
Total	45

Curriculum for Applied Arts Majors

Freshman Year	Term Hours
English 131-2-3	9

History 131-2-3	9
Drawing 121-2-3	6
Applied Arts 131-2-3	9
Mechanical Drawings 131	3
Mathematics 1300	3
Home Economics 121	2
Foods 234	3
Applied Arts 111	1
Total	45

Sophomore Year Term Hours

English 231-2-3	9
French 131-2-3	9
Chemistry 141-2-3	12
Clothing 133	3
Clothing 134	3
Clothing 234	3
Clothing 432	3
Applied Arts 232-233	6
Total	48

Junior Year Term Hours

Physics 334-5	6
American Government 331-2	6
Government 220	2
Applied Arts 331-2-3	9
Applied Arts 235-6-7	9
Design 334 or 335	3
Home Economics Electives	12
Total	47

Senior Year Term Hours

Sociology or Economics 231-2-3	9
Applied Arts 432-3-4	9
Applied Arts 435-6-7	9
Applied Arts Education or Electives	9
General Electives	9
Total	45

DEPARTMENT OF CLOTHING AND TEXTILES

Professor Erwin. Instructor Buster

The Department of Clothing and Textiles offers instruction in the fundamental principles of clothing selection and construction, in textiles, and in dress design. All students registered in the School of Home Economics are required to take at least nine term hours in this department. Students majoring in Clothing must consult their adviser regarding advanced courses and electives. Students expecting to teach Clothing in high schools should choose among their electives Home Economics Education 431-2-3. Students expecting to teach in vocational high schools should not major in this department, but in teacher training.

131. Elementary Clothing Construction. 6 laboratory hours.

Principles of construction applied to cotton, rayon and linen garments.

Fee: \$1.50.

Students who present a certificate from a vocational high school and who are able to pass a placement test satisfactory to the instructor, are exempt. Such students do not receive credit for this, but later elect a three point course, preferably history, English or French.

132. Principles of Dress Selection. 3 laboratory hours, 2 class hours.

Prerequisite: Clothing 131.

A study of the best selection of dress for the individual based largely on principles of design and color, occasion, social and economic conditions. Principles of hygiene in dress, the clothing budget, care and repair of garments. Making two-piece wash-dress.

Fee: \$1.50.

133. Elementary Textiles. 2 laboratory hours, 2 class hours.

Choice, cost and care of fabrics for clothing and home furnishing. A study of factors influencing quality in materials and how to recognize quality. Practical problems for immediate use.

Fee: \$1.50.

134. Elementary Clothing for Applied Arts Majors. 6 laboratory hours.

Prerequisite: Applied Arts 131, Textiles 133.

Principles of technique in construction and in fitting simple garments.

Fee: \$1.50.

135. *Craft Work in Textiles.* 6 laboratory hours.

Prerequisite: Clothing 133 and Applied Arts 131.

A course in constructing hand woven materials such as rugs, scarfs, etc.; basketry; dyeing; hooked rugs.

Fee: \$1.50.

221. *Dress Appreciation.* 2 class hours.

Especially designed for Liberal Arts and Foods Majors of Sophomore standing. Principles of good taste in the selection of dress.

225. *Home Project in Clothing.*

Prerequisite: Clothing 131-2-3, Applied Arts 131.

Designed to give the student some experience in solving individual and family clothing problems in the home. Aims to develop managerial ability and technical skill, and fulfills partially the requirement of the Federal Board of Vocational Home Economics that each student have home making experience.

This work must be carried on during vacations.

Fee: \$1.50.

231-2. *Elementary Dress Design.* 6 laboratory hours.

Prerequisite: Applied Arts 231, Clothing 131-2-3.

Problems in fitting and adapting patterns. Comparisons with standard commercial patterns. Development of freehand drafts. Emphasis on originality. Garment construction in wool and silk.

Fee: \$3.00.

234. *Elementary Dress Design for Applied Arts Majors.* 6 laboratory hours.

Prerequisite: Applied Arts 131, 231. Clothing 133-4.

Developing complicated designs from flat patterns. Practice in draping. No garment construction.

Fee: \$1.50.

331. *Advanced Textiles.* 3 laboratory hours, 2 class hours.

Prerequisite: Clothing 232.

A study of the underlying principles in the purchase of fabrics both for clothing and home furnishing.

Fee: \$1.50.

332. *Children's Clothing.* 6 laboratory hours.

Prerequisite: Clothing 131-2-3. Applied Arts 131 and 231.

Selection, care, designing and construction of children's and infants' clothing.

Fee: \$1.50.

333. Advanced Dress Design. 6 laboratory hours.

Prerequisite: Clothing 232, 331.

Preparation and use of the dress form. Emphasis on fitting and developing fine spaces and lines by draping material on person or form. Improved technique and originality required.

Fee: \$1.50.

431. Millinery. 6 laboratory hours.

Prerequisite: Clothing 232, junior or senior standing.

Designing, making, decorating of hats. Emphasis on suitable selection for individual costume and occasion.

Fee: \$1.50.

Spring term only.

432. Historic Costume. 3 class hours.

Prerequisite: Advanced standing; Applied Arts and Clothing work satisfactory to instructor.

A survey of the contribution of different countries and civilizations to the development of dress, and the effects upon modern dress design. Recommended for Clothing and Applied Arts majors and for those interested in the costuming of plays and in general dress appreciation.

Fee: \$1.50.

433. Tailoring. 6 laboratory hours.

Prerequisite: Clothing 333, or advanced standing.

Principles of fitting and constructing tailored garments. Study of economic and social factors influencing the production and consumption of ready-to-wear clothing.

Fee: \$1.50.

434. Demonstration Clothing. 4 laboratory hours, 1 class hour.

Prerequisite: Clothing 232, 331-2.

Elective for seniors majoring in Clothing or for Home Demonstration Agents. A thorough study of methods used in demonstrations, illustrative material, organization, efficient methods, short cuts, exhibits, contests, style shows and use of cooperative agencies.

Fee: \$1.50.

435. Dress Decoration. 6 laboratory hours.

Prerequisite: Applied Arts and Clothing courses approved by instructors.

The application of design principles to the decoration of costume. Adaptation of commercial stamping patterns. Development of original designs. Given jointly by Applied Arts and Clothing Departments.

Fee: \$1.50.

436. *Construction and Renovation of Household Furnishings.* 6 laboratory hours.

Prerequisite: Clothing 331 and Applied Arts 431.

Problems in the construction of household linens, curtains, draperies, rugs, slip covers, etc. Especially recommended for home demonstration agents, vocational home economics teachers and those interested in home furnishing.

Fee: \$1.50.

DEPARTMENT OF APPLIED ARTS

Associate Professor Delleney

The department of Applied Arts aims to develop appreciation and good taste, as well as to afford an opportunity for creative work in one of the many phases of design. The courses are designed to meet the aesthetic needs of two groups of students: those who are majoring in Home Economics and those who wish to major in one of the specialized fields of Applied Arts, such as Costume Design, Interior Decoration or Applied Design. Provision is made for students from other schools of the College who wish an initial course in any of these three phases.

111. *Non-technical Art Appreciation Course.* 1 class hour.

An appreciation of design principles wherever found, building up in the student a sound basis of discrimination of art quality. A study of the simpler type of room accessories and picture reproductions.

131. *Elementary Design.* 4 laboratory hours, 1 class hour.

Required of all Majors.

A study of design principles and color theory in their practical and aesthetic applications. Simple creative design in line, mass and color to develop correct decorative appreciation. Elementary work in lettering.

Fee: \$1.50.

132. *Elementary Applied Design.* 6 laboratory hours.

Prerequisite: Applied Arts 131.

An application of the student's original designs in the simple crafts of block-printing, tie dyeing, etc. Study and adaptation of simple types of historical and national ornament.

Fee: \$1.50.

133. Lettering. 6 laboratory hours.

Prerequisite: Applied Arts 131, 132.

Study in the various types of alphabets. Practical work in relation of upper and lower case letters, spacing, letter illumination, etc. Poster lettering. Use of various types of standard lettering pens.

Fee, \$1.00.

231. Costume Design. 4 laboratory hours, 1 class hour.

Prerequisite: Applied Arts 131.

A condensed course in dress planning. Study of effect of line, mass and color on various types of women. Illustrative work on the lay figure and with actual textures and colors on the standard dress form and on the individual students. Production of illustrative material for the teaching of costume planning in high school clothing classes.

Fee: \$1.50.

232. Costume Design for Applied Arts Majors. 4 laboratory hours, 1 class hour.

Prerequisite: Applied Arts 131-2-3, Drawing 121-2-3.

A more technical course in dress design for students who wish to take further work in the subject. Application of principles of design and color to costume, using the student's original designs upon the lay figure of varying proportions. Emphasis upon costume technique.

Fee: \$1.50.

233. Advanced Historic Costume. 6 laboratory hours.

Prerequisite: Clothing 231 or 232. Clothing 432.

A course in costume design, dealing with the historic periods in dress and national costume as inspiration for modern costume. Attention to details and color combination, rather than to silhouette.

Fee: \$1.50.

235-6-7. Painting—Water Color and Oil. 6 laboratory hours.

Prerequisite: Drawing 121-2-3. Applied Arts 131.

Required for Applied Arts majors and for anyone desiring to elect it. The technique of oil and water color handling in the painting of still life, flower compositions and landscapes. Emphasis on composition as well as technique.

Fee: \$4.00.

331-2-3. Advanced Applied Design. 6 laboratory hours.

Prerequisite: Applied Arts 131-2-3, Drawing 121-2-3.

An advanced course, continuing the work of Applied Arts 132. Development of the student's original designs in the more elaborate crafts, as batik, two-color block printing, needle point, etc.
Fee: \$4.00.

334. *Costume Illustration.* 6 laboratory hours.

Prerequisite: Applied Arts 232-3.

A course in costume technique for Applied Arts Majors. Stylistic renderings in pencil, charcoal, ink, transparent and opaque water color as a preparation for costume illustration in magazines and newspapers. A study of the work of contemporary French and American costume designers and illustrators.

Fee: \$1.50.

335. *Costume Decoration.* 6 laboratory hours.

Prerequisite: Art and Clothing courses approved by instructors.

This course is taught jointly by the Clothing and Applied Arts Departments. See Clothing 435.

Fee: \$1.50.

431. *Interior Decoration.* 4 laboratory hours, 1 class hour.

Prerequisite: Applied Arts 131, and junior standing.

A condensed course in home planning. Selection and criticism of good and bad interiors, color scheme planning. Individuality of rooms.

Fee: \$1.50.

432. *Interior Decoration for Applied Arts Majors.* 6 laboratory hours.

Prerequisite: Applied Arts 131-2-3, Drawing 121-2-3, Home Economics Drawing 131.

A more technical course in interior decoration for students who wish to take further work in the subject. Simple floor plan and elevation making. Work in painted and actual color schemes. Individual treatment of various rooms of the house.

Fee: \$1.50.

433-4. *Advanced Interior Decoration for Applied Arts Majors.* 6 laboratory hours.

Prerequisite: Interior Decoration 432.

Period styles in interior architecture, decoration and furniture. A study of the familiar styles of architecture in the South and West in relation to the interior finishing and furnishing suitable to each. Emphasis upon English and Spanish interiors. Elevations in definite period styles.

Fee: \$3.00.

435-6-7. *General History of Art.* 3 class hours.

Prerequisite: Junior standing, History 131-2-3, Applied Arts 131.

Required of all Applied Arts Majors. A survey of the important art epochs in the fields of painting, sculpture and architecture. Illustration by lantern slides. Library study and individual reports.

Fee: \$4.00.

DEPARTMENT OF FOODS AND NUTRITION

Professors Weeks, McCrery. Associate Professor McFarlane.
Assistant Professor Harper.

The Department of Foods and Nutrition offers instruction in the fundamental principles of foods, cookery, and nutrition. All students registered in the School of Home Economics are required to schedule work in this department. Students majoring in Foods and Nutrition should consult their adviser regarding the advanced courses.

Students expecting to teach foods in a high school should choose among their electives Home Economics Education 431-2-3. Students expecting to teach home economics in a vocational high school should not major in this department but in teacher training.

131-2. *Elementary Food Preparation.* 6 laboratory hours.

Principles of cookery. Planning, preparing and serving simple meals. Care of food in the home. Purchasing of food. Food budgets. Meal planning and menu making.

Students who present a certificate from a vocational high school, and who satisfy the instructor that they know the work are exempt from Foods 131. Such students should elect a three point course, preferably an additional course in history or English or modern language.

Fee: \$3.00.

133. *Elementary Nutrition.* 3 class hours.

The elementary facts of nutrition in relation to the selection of foods for college women.

Fee: \$1.00.

225. *Home Project in Foods.*

Prerequisite: Foods 131-2-3.

Home experience in connection with foods work under the supervision and advice of an instructor. Aims to develop managerial ability and technical skill and partially fulfills the require-

ment of the Federal Board of Vocational Home Economics that each student shall have home making experience. The work must be done during vacations, but the plan, time, subject are fully planned with the head of the department before being undertaken.

No fee.

231-2. *Meal Planning and Serving.* 6 laboratory hours, 1 class hour.

Prerequisite: Foods 131-2, Foods 133.

The planning, preparation and serving of meals. Special attention to cost in relation to income. Much practice in working out balanced menus.

Fee: \$3.00.

233. *Nutrition.* 3 laboratory hours, 2 class hours.

Prerequisite: Foods 133, Foods 231, Chemistry 141.

A study of the essentials of an adequate diet, continuing the work of Foods 133.

Fee: \$1.50.

234. *Food Selection and Serving.* 2 laboratory hours, 2 class hours.

A course for Applied Arts Majors, Liberal Arts students and others. Food preparation in meal combinations. Emphasis upon selection of foods for health.

Fee: \$1.50.

331. *Lunchroom Management.* 6 laboratory hours, 1 class hour.

Prerequisite: Foods 233.

The adaptation of the knowledge gained in foods and nutrition to the feeding of children of school age; the educational, social, and economic phases of school feeding; equipment, marketing, and keeping of accounts.

332. *History and Purchasing of Foods.* 3 class hours.

Prerequisite: Foods 233.

Market conditions and how to select and purchase foods. An elective course for Foods majors or others who have the prerequisites.

No fee.

333. *Institutional Management.* 4 laboratory hours, 2 class hours.

Prerequisite: Foods 331.

Training in the preparation of food in large quantities; study

of institutional equipment, organization, cost, and wholesale buying.

Practical experience in the College cafeteria. For students interested in institutional management.

No fee.

334. *Demonstration Cookery.* 4 laboratory hours, 1 class hour.

Prerequisite: Foods 233.

The selection and organization of subject matter suitable for demonstrations. Efficient methods, short cuts and illustrative material. Demonstrations given by each member of the class.

Fee: \$1.50.

335. *Experimental Cookery.* 4 laboratory hours, 1 class hour.

Prerequisite: Junior or senior standing. Completion of Foods courses satisfactory to instructor.

Individual work in experimental cookery dealing with problems of special interest to the students concerned.

Fee: \$1.50.

431. *Catering.* 6 laboratory hours, 1 class hour.

Prerequisite: Junior or senior standing and completion of Foods course satisfactory to instructor.

A study of more unusual and elaborate dishes and serving of special functions. Where special functions are served, extra hours are required.

Fee: \$3.00.

432. *Nutrition of Children.* 2 laboratory hours, 2 class hours.

Prerequisite: Foods 233.

Normal nutrition and health with emphasis on causes and care of malnutrition. Contact with children in the public schools.

Fee: \$1.50.

433. *Nutrition in Disease.* 3 class hours.

Prerequisite: Foods 233, Foods 432.

Emphasis on those diseases the prevention and cure of which are largely influenced by diet. Survey of recent literature in the field of Nutrition.

No fee.

DEPARTMENT OF HOME ECONOMICS EDUCATION

Professors Weeks, Erwin. Instructor Johnson

Students who wish to qualify as teachers of vocational Home Economics should schedule the following courses in Home Economics Education.

431. *Problems in Home Economics Education.* 3 class hours.

The curricula of various types of schools; the home project and other problems in home economics teaching; the literature of the subject and a brief survey of the development of home economics in the United States.

432. *Special Methods in Home Economics.* 3 class hours.

The organization and methods of teaching home economics. Required of all students preparing to teach.

433. *Practice Teaching in Home Economics.*

Prerequisite: Education 432.

The practice teaching is done in the city schools of Lubbock and Slaton under the supervision of the city teachers and the director of Home Economics teaching at the College.

GENERAL HOME ECONOMICS

The following, known as general Home Economics courses, are offered to students with all majors in the Schools of Home Economics and to Liberal Art students who have the prerequisites.

121. *An Orientation Course.*

Required of all students registered in the School of Home Economics. The object is to give the student the most assistance for a fuller, happier student life, and at the same time open up the field of possibilities in Home Economics. Problems of interest to all students will be discussed. Lectures will be given by members of the faculty and if possible by outside speakers.

331. *Home Nursing.*

The prevention and care of illness. First aid treatment. The preparation and serving of food for the sick. The nursing demonstrations are given by a registered nurse from the Lubbock Sanitarium.

332. *Household Administration.* 3 class hours.

The modern home. Emphasis on organization and scientific knowledge as applied to housekeeping problems. Equipment and furnishing. The family budget.

Fee: 50 cents.

333. *Child Care.* 2 class hours, 2 laboratory hours.

Prerequisite: Education 230.

A study of the mental and physical care of the child.

431. *Family Relationships.*

Prerequisite: Senior standing.

The sociological aspects of family life, including the historical development of the family.

461. *Residence in Home Management House.*

Prerequisite: General Home Economics 331-2, 18 hours of Foods.

The application of the principles of home management. Students will live in the practice house under supervision for a period of twelve weeks.

SPECIAL COURSES FOR HOME-MAKERS

In order to meet the needs of the women of Lubbock and of the surrounding country, special courses for home makers have been included in the School of Home Economics. These courses have no prerequisite and carry no college credit. It is recommended that students register for the regular college work whenever possible.

CLOTHING DEPARTMENT

101-2. *Garment Construction.* 3 hours lecture and laboratory.

Non-credit course for home makers. Offered in winter and spring terms.

Fee: \$3.00.

FOODS DEPARTMENT

101-2. *Meal Planning, Preparation, and Service.* 3 hours lecture and laboratory.

Non-credit course for home makers. Offered in fall and winter terms.

Fee: \$4.00.

ROSTER OF STUDENTS

1928-29 (Fall Term Only)

Abernethy, Arvord M.	Canadian
Abernethy, James A.	Canadian
Abraham, Tom	Canadian
Adair, Eugene	Lubbock
Adams, Charles	Lubbock
Adams, Clarence	Rotan
Adams, Elizabeth	Lubbock
Adams, Nina	Lamesa
Adkisson, Alfred J.	Lubbock
Adkisson, C. D., Jr.	Denton
Adkisson, Douglas B.	Abernathy
Ahlman, A. P.	Marathon
Ainsworth, Joseph C.	Bledsoe
Ainsworth, Marjorie	Lubbock
Aldridge, Bertie	Wellington
Alexander, Alma	Lubbock
Alexander, E. G.	Lubbock
Alexander, Ethel	Lubbock
Alexander, J. C.	Lubbock
Alexander, R. A.	Breckenridge
Alexander, Ruth	Breckenridge
Alford, Dorothy	Lubbock
Alldredge, Anna Maye	Lubbock
Alldredge, James	Lubbock
Allen, Andrew R.	Lubbock
Allen, Curtis	Lubbock
Allen, Frazier	Lubbock
Allen, Maxine	Lubbock
Allen, Robert King	Austin
Allingham, R. Bruce	Amarillo
Allison, Glenn	Lubbock
Allison, Naomi	Clarendon
Allison, R. Alvin	Levelland
Allred, Lila	Chillicothe
Alston, Lester	Tatum, New Mexico
Alston, Louise	Tatum, New Mexico
Alsup, Adel	Abernathy
Ammons, Wm. Harold	Lubbock
Anderson, James G.	Woodville
Anderson, Rudolph	Stanton, Iowa
Anderson, Vida	Littlefield
Andress, Jesse	Lubbock
Angelo, Andrew	Sabinal
Anglin, Floy	Tahoka
Archer, Hosea	Moran
Archibald, Elson	Linton, Indiana
Archibald, R. H.	Linton, Indiana
Armstrong, Ena	Comanche
Arnold, Inez	Roscoe
Arnot, Paul	Taft, California
Ash, Berlun	Ropesville
Ashmore, Jesse Lee	Rockwood
Ashmore, Lela	Lubbock
Atchison, C. J.	Lubbock
Atchison, Mac E.	Brandon
Austin, D. T., Jr.	Mt. Pleasant

Austin, Hammon	Lubbock
Austin, X. A.	Childress
Avery, Thelma	Meadow
Aycock, Eulala	Rosebud
Ayers, James L.	McLean
Ayers, Ross	Lubbock
Ayers, Vernon Carl	Lubbock
Bagwell, Harry	Nocona
Bagwell, Stancil M.	Lubbock
Baird, Elizabeth	Vernon
Baker, Billie	Buffalo
Baker, Dora	Dimmit
Baker, Elaine	Rotan
Baker, Evelyn	Lamesa
Baker, Howard	Archer City
Baker, Troy Olene	Lubbock
Baker, Twilight	Shallowater
Balentine, Julius	Spearman
Ball, Erlene	Lorenzo
Ballenger, Mrs. C. M.	Lubbock
Ballenger, Murray	Lubbock
Barfoot, C. M.	Murchison
Barjenbruch, Boyd	Wellington
Barker, Marie	Lubbock
Barker, Ralph	Lubbock
Barker, Roy L.	Lubbock
Barksdale, T. F.	Chico
Barnard, Berlin	Elida, New Mexico
Barnes, Willard J.	Granger
Barnett, Granvil	Goldthwaite
Barnhart, Frankie	Pampa
Barr, Alice	Lubbock
Barrett, Alva	Floydada
Barrier, Annie Lou	Lubbock
Baskin, Margaret	Lubbock
Baskin, Mary L.	Lubbock
Bates, Oran D.	La Pryor
Batton, Ceril E.	Spearman
Bavousett, Earl B.	Camp Springs
Bavousett, Roe	Camp Springs
Bayless, Mary L.	Lubbock
Bayless, Roscoe	Lubbock
Baze, Vanabel	Lubbock
Beard, Harry T.	Rule
Beard, Haskell	Lubbock
Bearden, Lester	Lamesa
Beasley, Hugh	Kirkland
Beaver, Leo	Fluvanna
Beck, Joe S., Jr.	Goldthwaite
Beckum, Bill	Memphis
Becton, Mable	Becton
Bell, Elizabeth	Seymour
Bell, Fay	Silver City, New Mexico
Bell, Gregory	Rice
Bell, Hershel M.	Lubbock
Bell, Lennon G.	Lubbock
Bell, Uel	Lubbock
Bennett, Joseph L.	Falfurrias
Bennett, Mrs. J. W.	Lubbock
Benson, Donald Clark	Lubbock
Bergfeld, Julius	Dallas
Berry, Delia	Lawn

Berry, George	Rosston
Berry, George E.	Strawn
Best, George	Woodville
Biggs, Addie	Spur
Biggs, Allie	Spur
Binnion, Mrs. Marion	Lubbock
Binnion, T. M.	Lubbock
Bivins, D. D.	Gould, Oklahoma
Blackshare, John M.	Memphis
Blackwell, Cleo	Wingate
Blackwell, Merrybelle	Lubbock
Blake, Lonnie L.	Lubbock
Blakely, Clifford	Idalou
Blanton, Ella Mae	Ralls
Blanton, Guy C.	Canyon
Blevins, Joseph	Oklaunion
Blocker, Grady U.	Chico
Boggs, Donald R.	Lubbock
Bohannon, Ross	Brownwood
Boles, Mrs. B. L.	Lubbock
Bond, Mrs. Jewel G.	Lubbock
Bone, Lucien	Ferris
Boone, Crystelle	Lubbock
Boozer, Lester	Mineola
Borden, Iris	Dickens
Bourland, Hazel Lynne	Clarendon
Boverie, Bess	Wellington
Bowerman, Mrs. Bessie	Dickens
Bowers, Jesse	Bledsoe
Bowlin, Annie Mae	Lubbock
Boyd, E. B., Jr.	Throckmorton
Boyd, Kate	Lubbock
Boyd, Louie Birt	Tulsa, Oklahoma
Boyles, Rheba Merle	Chillicothe
Bcyles, Vyneta	Chillicothe
Bradley, Nat.	Memphis
Brady, Barney A.	Amarillo
Brady, Ward	Claude
Bralley, J. C.	Tulia
Brandenburg, Ralph	Dallas
Bratton, Lena	Guymon, Oklahoma
Brewer, Paul W.	Memphis
Brinkerhoff, Emile	Quanah
Brock, J. E.	Plaska
Brock, Pauline	Lubbock
Broderick, J. W.	Waco
Brooks, Harold C.	Bishop
Brothers, Orville	Lubbock
Brown, Agnes K.	Clovis, New Mexico
Brown, Archie	Cameron, New Mexico
Brown, Audrey B.	Lubbock
Brown, Blanche	Cisco
Brown, Dorothy	Clovis, New Mexico
Brown, Dovie	Shallowater
Brown, Ethel	Slaton
Brown, Etta Mae	Lubbock
Brown, Faye	Tahoka
Brown, Grace V.	Clovis, New Mexico
Brown, Louis N.	Lubbock
Brown, Ludell	Lubbock
Brown, Nellie Lee	Quitaque
Brown, Oran F.	Ira
Brown, Ora S.	Lubbock

Brown, Seals E.	Ft. Stockton
Brown, Walter	Navasota
Browning, Buford	Justiceburg
Browning, R. C.	Albany
Bryan, Sue	Lubbock
Buckler, Jack Moore	Waco
Buckner, Mary Dale	Lubbock
Buckner, Oran	Lorenzo
Bullock, Hubert	Plainview
Bullock, Paul	Plainview
Burdette, R. L.	Goldthwaite
Burdette, Mrs. R. L.	Lubbock
Burdine, Lester	O'Donnell
Burford, Raymond	Lubbock
Burford, Rosa Mae	Lubbock
Burgess, Laverne	Lubbock
Burkhart, Wayne	Lubbock
Burkholder, Flossie	Duncan, Oklahoma
Burleson, Gertrude	Paducah
Burleson, Iva	Sipe Springs
Burnett, A. J.	Brownfield
Burnett, Arthur	Dumas
Burnett, Bessie	Camp Springs
Burnett, Mildred	Lubbock
Burns, Robert L.	Dallas
Burns, Walter, N.	Cameron
Burroughs, J. H.	Lubbock
Burroughs, Myrtle	Lubbock
Busby, R. O.	Houston
Bussey, Clinton	Lubbock
Bussey, Laurene	Lubbock
Butcher, Charles	Lubbock
Butts, Hubert	Quanah
Bynum, Louise	Lubbock
Bynum, Mutton O.	Lubbock
Cagle, Mary Jo	Lubbock
Cain, Earl H.	Yoakum
Calame, Spurgeon	Wortham
Caldwell, Bill	Bonham
Caldwell, J. B.	Slaton
Calvert, J. B.	Amarillo
Camp, Jack	Pecos
Campbell, Audrey	Lubbock
Campbell, Golda	Lubbock
Campbell, Milton	Lytton Springs
Campbell, R. Trent	Lubbock
Candler, R. J.	Coleman
Caraway, Thelma	Spur
Carder, Charles	Cordell, Oklahoma
Cargile, Mrs. Laura	Lubbock
Cargile, Lee	Lubbock
Carlisle, Gid T.	Paducah
Carmichael, Bernis	Lubbock
Carmichael, Carlton	Lubbock
Carpenter, Mary Lee	Lubbock
Carpenter, Thos. R.	Lubbock
Carpenter, W. H.	Sudan
Carr, Cecil	Paducah
Carr, Garlan J.	Weslaco
Carr, J. L.	Bay City
Carrico, Ramon	Aubrey
Carruth, Estelle	Lubbock

Carson, Kermit L.	Waco
Carter, Evelyn	Fort Worth
Carter, Fletcher	Childress
Carter, Fred Sherman	Perryton
Carter, Henry N.	Waco
Carter, T. Erwin	Childress
Casey, Marie	Snyder
Castleberry, A. T.	Lubbock
Castleberry, Espie	Lubbock
Castleberry, Wayne	Eastland
Cavett, Richard	Lubbock
Cellum, Genevieve	Lubbock
Chance, Dillie Mae	Anton
Chandler, Bonita	Lubbock
Chandler, David	O'Donnell
Chapman, Landrum	Lubbock
Chapman, Mary Edna	Amarillo
Chapman, Ned	Gatesville
Chapman, Thomas	Lubbock
Chase, Glenn	Lubbock
Chenoweth, C. D.	Panhandle
Cherry, Sarah Jane	Lorenzo
Chesser, Bristol	Stanton
Chesser, Mrs. Joyce	Stanton
Chester, Charlotte	Spearman
Chisholm, Eva Gertrude	Littlefield
Christman, Edna	Arlington
Churchwell, J. B.	Malakoff
Cihaceh, Mary	Fort Worth
Clapp, Roger	Childress
Clark, Caswill Archie	Trent
Clark, Evelyn	Waco
Clark, F. M.	Lubbock
Clark, G. C.	Magargel
Claunch, F. Barton	Silverton
Claunch, W. Byron	Hamilton
Clawson, Ivy W.	Flatt
Clem, Annette	Lubbock
Clemens, Duella	Shamrock
Clements, Canon	Lubbock
Clements, Lizzie Belle	Lubbock
Clements, Solon, Jr.	Lubbock
Cleveland, Glenn	Plains
Clift, Claude Vance	Hermleigh
Cline, Ray A.	Lamesa
Clingingsmith, G. Ira	Hart
Cloud, Jim	Spur
Clutter, Bill	Bonham
Cocanougher, Truett	Idalou
Cochran, G. W.	Sweetwater
Cocke, Nora	Wellington
Cody, Leroy	Lone Oak
Coffman, Addie	Idalou
Coffman, Paul	San Jon, New Mexico
Coffman, Walter	Goree
Coffman, Mrs. W. H.	Idalou
Cohn, Joseph L.	Fort Worth
Coker, Mathias F.	Paducah
Cole, Bennett	Lubbock
Cole, Clarence	Valera
Cole, Floyd F.	Lubbock
Cole, Ray	Childress
Cole, Wylie Sue	Pecos

Coleman, Irwin W.	Lubbock
Coleman, Mrs. Mabel	Lubbock
Collier, Rena	Spur
Collins, Anna Belle	Channing
Collins, Bill E.	Brownfield
Collins, Earl B.	Clovis, New Mexico
Collins, Weldon	Rotan
Comer, T. S.	Lubbock
Conner, Irene	Lubbock
Conner, Louis	Lubbock
Cook, Bonnie Lee	Levelland
Cook, Eloise	Lubbock
Cook, Gertrude H.	San Antonio
Cook, Gordon	Post
Cook, Mordis	Lubbock
Cook, Nila	Shallowater
Cook, Willard	Lamesa
Coon, Helen	Lubbock
Cooper, Harold A.	Coleman
Cooper, Margaret	Lubbock
Cooper, Robert	Lubbock
Cope, K. R.	Parnell
Cope, Wm. Douglas	San Angelo
Coppage, Glenn	Hollis Oklahoma
Corley, Vaughn	Wolfforth
Corry, Albert A.	Denton
Corse, William	Lubbock
Cotton, W. C., Jr.	Canadian
Couch, Hudson	Oklaunion
Couch, J. E.	Pecos
Couch, Phillip	Clarendon
Cousins, S. A., Jr.	McLean
Covington, Ethel	Augusta
Cowan, Earnest H.	Tahoka
Cowan, Ruth Dean	Itasca
Cowart, Juanita	Lockney
Cowart, Travis E.	Lockney
Cowsert, Josephine	Dimmitt
Cox, Gladys Fredda	Lubbock
Cox, Jewell	Lorenzo
Cox, Leah	Lubbock
Cox, Mildred	Lubbock
Cox, Seth Barton	Stamford
Cozby, Miller	Lubbock
Craig, R. L.	Marshall
Craven, L. C.	Lubbock
Craver, Julius N.	Yantis
Craver, Merrill	Yantis
Crawford, Elsie	Post
Crawford, Ethel	Portales, New Mexico
Crawford, Iris	Lubbock
Crawford, Preston	Lubbock
Crews, Elizabeth	Lubbock
Criswell, Delmar R.	Buckholts
Criswell, Leonard L.	Forney
Criswell, Mary Jo	Plains
Crites, Ernest	Lubbock
Crites, Harold F.	Lubbock
Croslin, Lottie	Lubbock
Croslin, Wm. Lloyd	Lubbock
Cross, J. Hollie	Lubbock
Cross, Leon	Royse City
Cross, Leta Alyce	Lubbock

Cross, Loy	Lubbock
Crump, Mamie	Shallowater
Cruse, Jno. B.	Woodville
Culp, Ray	Pearl
Culwell, Carl B.	Lubbock
Culwell, Ruth	Lubbock
Cummings, Clyde K.	Byers
Currie, Jon	Dallas
Currie, Maurice	Gorman
Dallas, James H.	Brownfield
Dallis, Gus	Lubbock
Dalton, L. C.	Happy
Daniel, Wayne W.	Ropesville
Daniell, Leon	Forreston
Darden, Irene	Tatum, New Mexico
Davidson, Durell	Mineral Wells
Davis, Blanche	Lubbock
Davis, Chapman	Sulphur Springs
Davis, Charles (Billie)	Cone
Davis, Garland	Teague
Davis, Gretchen	Clovis, New Mexico
Davis, Hayden B.	Graford
Davis, H. W.	Miami
Davis, J. F.	Stephenville
Davis, John A.	Spur
Davis, Lee B.	Lubbock
Davis, Margaret	Teague
Davis, Ouida	Lubbock
Davis, R. Foster	Rule
Davis, Rose	Graford
Davis, Roy C.	Ralls
Davis, Velma Corbell	Lubbock
Dawson, Aron	Rulia
Dean, Cecil	Lamesa
Dean, Horace	Dawson
Dean, Vernon	Southland
Delaney, Stephen Virgil	Lubbock
DeLavar, Eva Mae	Lubbock
Denning, Joel N.	Lubbock
Dennis, David	Olton
Denton, Elven	Littlefield
Denton, L. Percy	Lubbock
Derrick, Jewell	Tatum, New Mexico
De Shazo, Herbert	Lubbock
Devenport, Elmer	Earth
De Wald, Anna Jo	Lubbock
De Witt, H. C.	Fort Worth
Dickinson, Gordon	Lubbock
Dietrich, Carl	La Pryor
Dillard, Glenna	Lubbock
Dinwiddie, C. B.	Tulia
Dingus, Mrs. Wm.	Lubbock
Dison, Everitt	Canyon
Doak, Mrs. Mary W.	Lubbock
Doak, Wesley	Lubbock
Dockray, Felice	Lubbock
Dockray, Willie Pearl	Lubbock
Dodgen, Durward	Winnsboro
Dodson, Calvin	Roaring Springs
Dohoney, E. L.	Lubbock
Dominy, James F.	Paducah
Donley, Joe B.	Perryton

Donnell, Ethel	Graham
Doss, Bernice	Seminole
Dougherty, Lynn	Lévelland
Douglass, L. Alva	Muleshoe
Drake, L. C.	Lubbock
Drake, Geo. Lee	Lubbock
Drake, G. Wilson	Kress
Drake, Lawrence H.	Kress
Duenkel, Ernest	White Deer
Duncan, Billie Dee	Idalou
Duncan, Hazel	Lubbock
Duncan, Oscar	Lindsay, Oklahoma
Dunham, Jim M.	Weslaco
Dunman, Jo	Coleman
Dunn, Fannye Sue	Lubbock
Durham, Anna Belle	Hamilton
Durham, Jack	Hamilton
Dyer, J. M.	Waurika, Oklahoma
Dyer, J. R.	Sudan
Dyer, Milton C.	Muleshoe
Dyer, Robert E.	Vega
Dyer, Wilma E.	Sudan
Eagan, Ethridge	Littlefield
Eakins, Alfred R.	Rotan
Earnest, D. C.	Eastland
Eaton, Geo. E.	Lubbock
Eaves, J. Beuford	Floydada
Eaves, Lawrence	Lubbock
Edelman, Wilburn	Plainview
Edmonds, Freeman	Spur
Edwards, Ethy Lou	Lubbock
Edwards, Eugene	Fort Worth
Edwards, Mae A.	Fort Davis
Edwards, Mencie C.	East Prairie, Missouri
Edwards, Mollie	Lubbock
Elkins, Clyde, Jr.	Lubbock
Elliott, Ernest D.	Lubbock
Elliott, Madeline	Brownfield
Ellis, Alvis	Anton
Ellsworth, Annie M.	Lubbock
Elms, Charlotte	Ralls
Emmson, Frank, Jr.	Brownwood
Enoch, Gwylm	Floydada
Epps, Nute	Plainview
Erwin, Mary Virginia	Lubbock
Etter, Mrs. Ova May	Lubbock
Eubank, Rue	Seminole
Eubank, Velma	Putnam
Eubanks, Billye Pearl	Lubbock
Eudaly, Sheldon	Fort Worth
Fagg, Charles	Eastland
Fann, Marvin	Lubbock
Fanning, James	Grady, New Mexico
Ferguson, Frances	Haskel
Ferguson, Roberta	Floydada
Fickas, Addie	Lubbock
Fikes, Ralph	Granger
Fikes, Scott	Granger
Fincher, Clyde	Chillicothe
Fincher, E. B.	Amarillo
Finley, Pat	Eldorado
Finley, Virginia Lea	Pecos

Finnell, Leslie	Holliday
Finney, Ray	Olton
Fisch, Violet Maye	Lubbock
Fisher, Arthur F.	O'Donnell
Fisher, Leon	Memphis
Flache, Mamie Sue	Brownfield
Flake, Elton E.	Plainview
Flanagan, Juanita	Lubbock
Flourney, Keith	Lubbock
Foley, Mary Estella	Lubbock
Forbes, Ruth	Lubbock
Ford, Dimple	Lubbock
Ford, Freeman	Weslaco
Ford, Mrs. Gus L.	Lubbock
Ford, M. Hollis	Waco
Ford, Roxana Ruth	Lubbock
Forman, Ellis Roy	Teague
Formby, Marshal	McAdoo
Fort, Addie Belle	Lubbock
Foster, Ada	Lockney
Foster, Georgia Mae	Lubbock
Foster, Troy	Littelfield
Foster, Vincent	Lubbock
Fowler, Gibson A.	Mansfield
Fowler, Owen Murle	Lubbock
Franklin, Homer	Ropesville
Freeland, E. Y.	Lubbock
Frizell, Mary	Stamford
Frnka, Irene	Garwood
Fry, Bill R.	Dallas
Fry, Thera O.	Lorenzo
Fuller, Mayme Lou	Wellington
Furgeson, Royal	Idalou
Gable, Lois	Lubbock
Gable, Mozelle	Lubbock
Gaddy, Lyndell	Sudan
Gaines, Leon Nolan	Bellevue
Gaines, Nannie Mae	Lubbock
Gaines Velma	Lubbock
Galbraith, Chas. C.	Hereford
Gale, Mary Frances	Lubbock
Galloway, W. S.	Frankston
Gamel, Mary Lois	Lubbock
Gammill, J. R.	Lubbock
Gammill, W. G.	Shallowater
Gantt, Hubert	Mildorado
Garland, Edward B.	Lamesa
Garrett, Horace	Lubbock
Garrison, Hill	Lubbock
Garrison, La Verne	Lubbock
Garrison, Vada Mae	Lubbock
Garton, Eva Mae	Amherst
Gattis, Thurman	Slaton
Gaut, Mary	Bellevue
Gautier, Maurice	Lubbock
Gee, J. T.	Carbon
Gehring, Annie E.	Longworth
George, Faye	Lubbock
Gibbons, Harold	Richland Springs
Gibbs, Myrtle	Loco, Oklahoma
Giddens, T. W.	Snyder
Gilbert, Wendell	Lubbock

Gilbreath, V. H.	Lubbock
Gilbreath, Mrs. Wynona	Lubbock
Gillette, Ralph	Littlefield
Gilliam, J. O.	Big Spring
Gist, J. T.	Colorado
Gist, Morgan	Colorado
Glazener, Walter, Jr.	Lubbock
Glazier, Candler	Rye, Colorado
Glazner, Palmer J.	Anson
Glenn, Maurice T.	Stamford
Glover, Ralh C.	Raymondville
Goforth, Flora	Lubbock
Goldblott, Joe	Breckenridge
Golden, Carl	Snyder
Good, Thomas B.	Cooper
Goodloe, Jack	Lamesa
Goodloe, Nell	Lamesa
Goodpasture, Beatrice	Lubbock
Gordon, Gerald G.	Lubbock
Gordon, James L.	Amarillo
Gordon, Jason	Albany
Gordon, Nina L.	Albany
Gotcher, Wilma	Lubbock
Gough, Smoot	Waxahachie
Gable, C. T.	Colorado
Gragg, Oleta	Shamrock
Graham, Gladys	Winters
Graham, J. D.	Lovington, New Mexico
Graham, J. J.	Laredo
Graham, Neville B.	Guion
Graham, Wayne	Hagerman, New Mexico
Granberry, Dellis M.	Olton
Granger, W. D.	Mount Calm
Grantham, Connie	Lubbock
Grantham, Rowena	Lubbock
Grau, Earl	Grady, New Mexico
Grayum, Gerome	Paducah
Grayum, Ted	Paducah
Greathouse, Mary	Tahoka
Green, Clovis	Portales, New Mexico
Green, Dick	Granger
Green, Geo. P.	Portales, New Mexico
Green, J. L.	Lubbock
Green, La Thaggar	Levelland
Green, Mollie Belle	Graford
Green, O. L.	Lubbock
Green, Porter	Graford
Gregory, Franklyn	Gatesville
Gregory, Lucie	Lubbock
Griffin, Estelle	Lubbock
Griffin, Everette	Lubbock
Griffith, Paul W.	Salado
Griggs, Hettie L.	Stephenville
Griggs, Joseph R.	Lubbock
Grimes, Curtis	Lubbock
Grimes, W. J.	Lubbock
Grimsley, Glyds	Lubbock
Groves, Blanche	Stinnett
Gruver, Hazel	Lubbock
Guffin, Anna Belle	Lubbock
Guice, Leonard	Eden
Guidry, Earl	Woodville

ROSTER OF STUDENTS

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Gunn, Fern	Lubbock
Guthrie, John S.	Seymour
Hagen, C. W.	Gonzales
Hahn, Fawn	Aspermont
Halbert, Jo	Saragosa
Hale, Marie	Lubbock
Hall, Ewell	Memphis
Hall, Jay C.	Westbrook
Hall, Mancil L.	Lubbock
Hallmark, Robert C.	Kempner
Hallmark, Ruben	Idalou
Halsell, Naomi Ruth	Lubbock
Ham, J. Riley	Teague
Hamblen, Oberia	Stamford
Hamilton, Beryl	Childress
Hamilton, Clementine	Winters
Hamilton, Noman	Quitaque
Hammons, Annie L.	Gordon
Hancock, Elizabeth	Lubbock
Hancock, Erwin E.	Tahoka
Hancock, Hugh	Frederick, Oklahoma
Hancock, Velma	Tahoka
Hancock, Wesley	Lubbock
Hankins, Flake	Lubbock
Hankins, La Trell	Lubbock
Hankins, Weldon F.	Lubbock
Hanna, Harold R.	Waldron, Kansas
Hanna, J. J., Jr.	Quanah
Harber, Thomas Wilson	Munday
Harbison, Max	Lubbock
Hardberger, Homer	Lubbock
Hardesty, Rudd	Abernathy
Hardin, Evelyn Wilson	Lubbock
Hardin, Frank	Brownwood
Harding, Fenton	Dallas
Hardy, William P.	Bonham
Hargrove, Roy	Rotan
Harkey, Gladys	Lubbock
Harkey, Lois	Jayton
Harmon, Audrey S.	Lubbock
Harper, Arch R.	Roscoe
Harper, Geneva	Lubbock
Harper, J. B.	Anton
Harper, R. D.	Roscoe
Harrell, James	Chappel
Harrell, Valera	Ralls
Harris, Dorothy	Dumas
Harris, J. C.	Lubbock
Harris, Mildred	Lubbock
Harris, T. J.	Clifton
Harris, Weldon	Clyde
Hart, Bennie	Olney
Hart, Carl Raymond	Lamesa
Hart, Edgar	Olney
Hart, Lois Nelson	Lubbock
Hart, Mary Jeff	Lubbock
Hartrick, Wade J.	Butler, Missouri
Harwell, Juanita	Memphis
Hastings, M. M.	Roscoe
Hastings, Olin	Roscoe
Hatchett, Chas.	Lamesa
Havis, Leon	Roaring Spring

Hawkins, Novelle	Quitaque
Hawkins, Willie	Abilene
Hawthorne, Gale	Southland
Hayes, Merwyn	Weatherford
Hayhurst, L. W.	Lubbock
Haymes, Terrell, Jr.	Lubbock
Haynes, Jewell	Idalou
Hays, Lellesse M.	Lubbock
Hazlewood, John	Archer City
Heard, Pauline	Crosbyton
Heard, M. E.	Lubbock
Heard, Ralph L.	Lanett, Alabama
Heath, Lottie Mae	Lamesa
Heddins, Lettrial	Lubbock
Hefner, Evelyn	Lubbock
Heierman, Catherine	Imperial
Helms, Howard	Lubbock
Hempel, Henry	Temple
Hemphill, Novelle	Lubbock
Henderson, Carrie Lou	Byers
Henderson, Geraldine	Dallas
Henderson, Maurine	Lubbock
Hendrick, Ira	Lamesa
Hendrick, Thomas G.	Lorenzo
Hendrick, Thomas W.	Lamesa
Hendricks, Mrs. A. R.	Lubbock
Hendricks, Mrs. E. E.	Lubbock
Henry, Charles L.	Sweetwater
Henry, Kenneth	Floydada
Henry, Ruth	Des Moines, New Mexico
Henson, Mary Lois	Georgetown
Herman, J. L.	Stamford
Herring, Eugene W.	Mt. Calm
Hershey, H. L.	Hereford
Hervey, H. C.	Corsicana
Hervey, Margaret	Rice
Hess, Orval	Hermleigh
Hester, E. K.	Lubbock
Hester, E. W.	Lubbock
Hewett, June	Plainview
Hewlett, J. P.	San Benito
Hickey, T. H.	Hillsboro
Hicks, Lawrence	Sudan
Higgins, Altus	Hereford
High, Ben	Dallas
Hill, Basil	Lamesa
Hill, Gertrude	Ireland
Hill, Hollis	Ennis
Hill, J. Culver	Lubbock
Hill, Jim O.	Nocona
Hill, J. W.	Nocona
Hill, Loydell	Lubbock
Hill, Volney	Lubbock
Hill, Mrs. Volney	Lubbock
Hinds, Mildred A.	Lubbock
Hinger, Fred	Endee, New Mexico
Hinsley, Ethel	Ropesville
Hinson, Burl O.	Meadow
Hobbs, Cecil	Rice
Hobbs, Earl	Paducah
Hobson, Ennis	Oklaunion
Hodges, Jas. Clarence	Tuscola
Holcomb, James Gerald	Snyder

Holden, J. C.	Wilson
Holeman, Alfred	Lubbock
Holeman, Clarence	Lubbock
Holland, Pauline	Lubbock
Hollar, Emory	Lubbock
Holliday, Alton W.	Nashville, Arkansas
Hollowell, Sally	Albany
Holman, Pitts	Stamford
Holmes, Roy A.	Floydada
Holstead, Katherine	Waco
Holt, Clarice	Wheeler
Holt, Horace	Sudan
Holt, Mrs. Howard D.	Lubbock
Honey, Floyd	Lubbock
Hoover, Kermit R.	Mt. Calm
Hope, Claude	Sweetwater
Hopper, Hubert	Lubbock
Hopper, Sam	Wellborn
Hopping, Lillian	Lubbock
Horn, Ruth	Lubbock
Horstmann, Albert L.	Buckholts
Horstmann, Hugo	Buckholts
Horton, Barbara	Hale Center
Horton, Donald	Camp Springs
Houghton, Edna	Lubbock
Houston, Chas. E.	Lubbock
Houston, Lucile	Lubbock
Howard, Horace	Kemp
Howard, Mrs. Lavena	Lubbock
Howard, Milford	Pecos
Howell, Mrs. J. T.	Fort Worth
Hrback, Gilbert	Roscoe
Hubbard, Delbert	Crane
Hubbert, Oscar	Ralls
Hudman, Victor	Post
Huff, Robert J.	San Antonio
Huffman, Nina	Snyder
Hufstedler, Auvena	Lubbock
Hufstedler, Rita	Lometa
Hughes, Vernon N.	Joshua
Hughett, C. M.	Lubbock
Hughett, Pauline	Lubbock
Huling, Arlene	Aspermont
Hulme, Norma	Crosbyton
Humphries, Daisimay	Lubbock
Hunt, Fay	Lubbock
Hunt, Homer	Lubbock
Hunt, Roy E.	Lubbock
Hunter, Bascom	Chico
Hunter, John	Woodville
Hunter, Melvern	Plainview
Hurlburt, Mrs. Claude	Lubbock
Hurn, Mary Hazel	Clarendon
Huston, Allene Ruth	Lubbock
Hutcherson, Edwin	Memphis
Hutchins, Artie	Bellview, New Mexico
Hutchinson, Ruth	Lubbock
Hutson, Willie Pearl	Lubbock
Hutto, Estelle	Big Spring
Hutto, Maryon F.	Big Spring

Igo, Ina Kathleen	Ralls
Ingerton, Madelyne	Amarillo
Inman, Maggie Lee	Hale Center
Irion, Jim Everett	Estancia, New Mexico
Isaacs, Brady	Lubbock
Isbell, Robert M.	Plainview
Jackson, Cleo Yvonne	Lubbock
Jackson, Florence	Lubbock
Jackson, Helan	Lubbock
Jackson, Irene	Lubbock
Jackson, James A.	Lubbock
Jackson, J. W.	Lubbock
Jackson, Ruby	Lubbock
Jackson, Susan	Lubbock
Jackson, Thema	Lubbock
Jackson, Mrs. W. L.	Lubbock
Jacobs, Glenn	Gainesville
James, Gordon	Lubbock
Jarman, Vesta Pearl	Amherst
Jenkins, Harmon	Lubbock
Jenkins, J. D.	Lubbock
Jenkins, Newton	Waco
Jenkins, Trixie E.	Lubbock
Jeness, Helen	Lubbock
Jennings, Grady	Graford
Jewell, Virgil C.	Norton, New Mexic
Jinkins, Andrew B.	Sudan
Jinkins, E. A.	Sudan
Johnson, Doris Ladd	Lubbock
Johnson, John R.	Lubbock
Johnson, Joyce	Lubbock
Johnson, Minibel	Lubbock
Johnson, Maxine	Lubbock
Johnson, Verna	Eastland
Johnson, Virgie	Lubbock
Johnson, W. F.	Anson
Johnston, Grace	Stinnett
Joiner, Gus	Miami
Jones, Eillie	Abernathy
Jones, Gaston	Lubbock
Jones, Gordon	Melrose, New Mexico
Jones, Joseph F.	White Dear
Jones, Lula F.	Gainesville
Jones, Pauline	Snyder
Jones, Raymond	Wellington
Jones, Roy Brown	Crawford
Jones, Ruth E.	Abernathy
Jones, Veralee	Tulia
Jones, Wm. M., Jr.	Dallas
Jones, Wilma	Lamesa
Jones, W. O.	Paducah
Karnes, Lois	Lubbock
Kaufman, Raymond	Amarillo
Keaster, Effie Lou	Lubbock
Keeney, John Emmet	Miami
Keller, Glenna	Lubbock
Keller, Henry	Mason
Kelley, Clarence	Littlefield
Kelly, Frank	Miami
Kelly, Alfred H.	Wortham
Kelly, Charles H.	Eldorado, Kansas

Kemp, Frazier E.	McCaulley
Kendrick, Ernestine	Waco
Kennedy, Christine Ruby	Lamesa
Kennedy, Robert	Lubbock
Kennedy, Ruby Verna	Lubbock
Kerley, Fay	Lubbock
Kerr, James C.	Lubbock
Kerr, Roy	Amarillo
Kerschner, Randal	Lubbock
Key, Henry G.	Mineral Wells
Kiker, Smith Orvin	Paris
Killin, Hugh E.	Lubbock
Kilpatrick, H. C.	Galveston
Kimbrow, Albert M.	Lubbock
Kimbrough, Ernestine	Athens
King, James B.	Brownfield
King, Joe	Amarillo
King, Lowell	Ralls
King, Margaret	Lubbock
King, Nat B.	Laredo
King, Ogden	Lubbock
King, Robert V.	Dallas
Kirksey, Milton	Lorenzo
Kiser, Mary Alice	Olton
Klattenhoff, Ben	Slaton
Kline, William	Gregory
Knight, Grady	Shallowater
Knight, Marguerite	Shallowater
Knipp, Dorothy	Lubbock
Knowles, Sidney	Jonesboro
Koen, Ottis V.	Lubbock
Koeninger, Raymond	Plainview
Koeninger, Rupert	Plainview
Krueger, Mrs. J. T.	Lubbock
Lahm, Louis	Amarillo
Lam, Kathleen	Sudan
Lamar, Henry	Graford
Lancaster, Jesse Wade	Fort Worth
Lane, Gordon	Clarendon
Lane, Walker M.	Clarendon
Laney, Ruth	Lelia Lake
Lang, Joe W.	Kress
Lange, George Ray	Hagerman, New Mexico
Langford, Ardelle	Snyder
Langford, George	Frankell
Larmer, Frances	Lubbock
Lary, Hal B.	Clovis, New Mexico
Lasiter, J. H.	Whitesboro
Lass, O. J.	Plainview
Lassiter, Ottie Maud	Spur
Lattimore, J. L.	Lubbock
Law, Helen	Lubbock
Law, Juanita	Lubbock
Lawler, Mattie Lou	Athens
Lawlis, Mary	Snyder
Lawrence, Ben	Lubbock
Lawrence, Cleo Violet	Lubbock
Lawrence, Elsie	Lubbock
Lawrence, Ewell	Peacock
Lawrence, Hilda	Lubbock
Lawrence, Mercedes	Lubbock
Lawson, Florence	Lubbock

Leach, Donald B.	Mineola
Leach, Price	Plainview
Leary, Eunice	Estelline
Leary, Gladys J.	Estelline
Leary, Marvin H.	Estelline
Ledger, Claudiloea	Sudan
Ledger, Stell	Sudan
Lee, Clyde N.	Cone
Lee, Ebbie	Lamesa
Lee, Laurel	Lubbock
Lee, Z. B.	Sudan
Lefforge, Paul K.	Amarillo
Lefforge, Ruth	Amarillo
Legg, E. P.	Lubbock
Leggitt, Wm. E.	Wellington
Lemons, Sam A.	Amarillo
Leslie, Florine	Lubbock
Leslie, John	Lubbock
Leslie, Thelma	Snyder
Leslie, W. C.	Childress
Leslie, Will	Lubbock
Lewis, Hazel V.	Bertram
Lewis, Odie	Lamesa
Lewis, Sarah Maude	Lubbock
Liles, Estelle	Amherst
Lilljedahl, Lucile	Lubbock
Lilljedahl, Mary	Lubbock
Lindley, Roy C.	Cisco
Lindley, Vivian	Lubbock
Lindsey, Delwin E.	Rule
Lindsey, J. A., Jr.	Lubbock
Lindsey, James	Rule
Lindsay, Reuben	Stamford
Liner, Euel	Lubbock
Link, Jack	Tahoka
Link, Ruth	Tahoka
Lisemby, Fern	Tahoka
Lisemby, Thomas	Willcox, Arizona
Liston, Curtis	Terrell
Liston, Earl	Terrell
Livingston, Joe H.	Coleman
Lockhart, Jess	Lubbock
Lockwood, Albert	Lubbock
Lockwood, Daisy	Lubbock
Lodal, Cary H.	Gordon
Lodal, Olaf	Gordon
Logan, Helen	Lubbock
Logan, Robert L.	Lubbock
Lokey, Eldon E.	Wichita Falls
Long, George B.	Taft
Long, Louise	Abernathy
Longbroke, Otis	Brownfield
Louthan, Wallace	Hale Center
Love, Jule	Marshall
Love, S. T.	Lubbock
Lowrimore, William	Lubbock
Luce, John	Lubbock
Luce, Stephen B.	Lubbock
Lucus, Ruby	Belton
Lundell, Helen	Lubbock
Lyle, Tommy	Ralls
Lynn, Dolores	Lubbock

Lynn, Wilton E.	Lubbock
Lyon, William	Plaska
McAllister, Mrs. Ione	Lubbock
McArthur, Floyd	Spur
McCandless, Raymond	Rule
McCarty, Albert	Lamesa
McCarver, Mary Frances	Avery
McCasin, Mittie	Chillicothe
McCauley, Mrs. Ethel	Lubbock
McClain, C. W.	Fort Worth
McClellan, George	Lubbock
McClellan, Ione	Lubbock
McClellan, Opal	Lubbock
McClellan, Orene	Lubbock
McClure, Oran, Jr.	Spur
McCoy, Winnel	Lubbock
McCracken, Trilby	McLean
McCubbin, Roy H.	Valley View
McCullough, Edward A.	Waco
McDaniel, Allyne	Crosbyton
McDaniel, E. W.	Hubbard
McDonald, Edd	Plainview
McDonald, Ross	Lamesa
McDonald, Ruby	Evant
McDonald, Warner M.	Lubbock
McDowell, Orville	Roswell, New Mexico
McElroy, Lee Hick	Eldorado
McEntire, Lela Fay	Graham
McFarland, Herschel	Ralls
McGee, Willie Mae	Lubbock
McGehee, Dewitt T.	Wayside
McGuffey, Joe B.	Lubbock
McGuire, Janie	Lubbock
McIlvain, John	Lubbock
McIlvain, Lucia	Lubbock
McIlvain, Wilma	Rockwood
McIntosh, Eldon	Clyde
McJohnson, R.	Terrell
McJunkin, Walter	Houston
McKeand, Sidney, Jr.	Lefford
McKee, Clifford	Sweetwater
McKee, Ruth	Lubbock
McKinney, Herz	Waco
McKinney, William T.	Gordonville
McKirahan, Wilson	Amarillo
McLaurin, Omaha J.	O'Donnell
McLeod, Vernon	Wortham
McNabb, Margaret	Stillwater, Oklahoma
McNeill, Mary Louise	Lubbock
McQuien, Carl	Murchison
McWhorter, James	Childress
McWilliams, W.D., Jr.	San Benito
Macon, O. Carlton	Petersburg
Macon, Opal	Ralls
Maddox, Don	Menard
Maddox, Frank Silver	Waco
Maddox, Jack F.	Menard
Maddox, Ned	Menard
Maedgen, Lee	Eddy
Magee, Lawrence	Lubbock
Magee, Mary Jane	Levelland
Mahoney, Mrs. Alice	Lubbock

Main, Emma L.	Thalia
Main, Frank	Thalia
Maize, Elmo E.	Spearman
Maloney, Max D.	Goree
Mangum, Lois	Lubbock
Manire, Blair LaVerne	Slaton
Mappe, Leroy	Crawford
Marcom, Preston J.	Levelland
Marks, Ruth W.	Lubbock
Marr, Paul	Stephenville
Marsh, Roy Albert	Spur
Marshall, Inez	Santa Anna
Marshall, Mrs. J. M.	Lubbock
Marshall, Raymond	Lubbock
Martin, Elbert	Honey Grove
Martin, Emma Jean	Knox City
Martin, G. Robert	Graham
Martin, Guy	Knox City
Martin, Hazel Correnne	Lubbock
Martin, Hazel Evelyn	Hicks
Martin, John	Crosbyton
Martin, Kyle Elizabeth	Lorenzo
Martin, Leda	Tahoka
Martin, Mae Dell	Flomot
Mason, Mary Alice	Jonesboro
Mast, Henrie E.	Lubbock
Mast, Jane	Lubbock
Mast, Leland J.	Lubbock
Mast, Mrs. L. S.	Lubbock
Masters, Burl	Munger
Matheny, Whitman	Bardwell
Mathews, Walter	Goldsboro
Matthews, Rex	Littlefield
Maxey, H. G.	Lubbock
Maxey, Robert E.	Lubbock
Maxwell, Wm. Allen	Lubbock
May, Ola	Lubbock
Mayes, Eula Fay	Ralls
Meadors, Cornelia	El Reno, Oklahoma
Meason, Melvin	Lubbock
Medlin, Lena Bert	Stamford
Medlin, Weaver	Stamford
Medlock, Inez	Lubbock
Meredith, Genevieve	Amherst
Meredith, Juanita	Lubbock
Meriweather, Manon	Lockney
Merrell, Jerome	White Deer
Messamore, Harvie L.	Vinson, Oklahoma
Metcalfe, Mrs. Leona	Lubbock
Meyers, Raymond	Lubbock
Michie, Sarah	Lubbock
Mickey, Ina	Lubbock
Middleton, Clara	Lake Arthur, New Mexico
Middleton, E. V.	Afton
Middleton, Mary Louise	Lubbock
Middleton, Oueda	Lubbock
Middleton, R. C.	Lubbock
Miller, Kimsey T.	Lubbock
Miller, Mrs. Leila Ray	Lubbock
Miller, Pauline	Lubbock
Miller, Roy B.	Melvin
Miller, William Elza	Hale Center

ROSTER OF STUDENTS

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Miller, Wyatt	Merkel
Mills, Curry	Santa Anna
Mills, Gordon G.	Lorenzo
Mills, R. E., Jr.	Cookville
Millsapps, Hallie Jess	Lamesa
Mings, Velma	Pritchett
Minor, Mozell	Healdton, Oklahoma
Mitchell, Glenn R.	Valera
Mitchell, Jean	Bonham
Mitchell, Marjorie	Lubbock
Mitchell, Orland	Roaring Springs
Mixson, Ruby Jim	Quanah
Mongole, Edgar Mae	Clarendon
Montalmo, Daniel	San Antonio
Mooney, Jeff	Woodville
Moore, Bruce Hill	Tyler
Moore, Curtis	Jacksboro
Moore, Elmer	Lubbock
Moore, Fred H.	Lubbock
Moore, Horace Grady	Floydada
Moore, Inez	Lubbock
Moore, James T.	Cisco
Moore, J. Mark	Lubbock
Moore, Lucian	Lubbock
Moore, Milton H.	Lubbock
Moore, Reuben	Frost
Moore, R. T., Jr.	Gatesville
Moore, Seth T.	Gatesville
Moore, Thomas Odell	Ropesville
Moore, Weldon	Floydada
Moorehead, Thadeus B.	Meadow
Moorhouse, Chas. Collins	Benjamin
Morgan, J. H.	Mission
Morgan, Viola	Sur
Morris, G. Tom	Amarilo
Morrison, Lois	Lubbock
Morrison, Mrs. Myrtle	Lubbock
Morse, Bertha	Lubbock
Morton, J. T.	Heidenheimer
Moses, Ury M.	Lubbock
Moss, Horace E.	Valley View
Mounts, Hattie	Hale Center
Moxley, Lucille	Lubbock
Muggleton, Ernest T.	Abernathy
Mullings, Fred R.	Aiken
Mullins, Glidwell	Lubbock
Mulloy, Wayne L.	DeLeon
Mulloy, Mrs. Wayne	DeLeon
Murphy, Welford	Lubbock
Murray, Corene	Lorenzo
Murray, Virginia	Lubbock
Nail, Max	Memphis
Nash, Dorsey	Floyd, New Mexico
Nash, Leon	Floyd, New Mexico
Neal, Ellis	Rule
Neill, Vernon	Lubbock
Nelle, Wm. H., Jr.	Laredo
Nelson, Eleanor	Lubbock
Nelson, Joseph Joel	Clifton
Nelson, Lillian	Lubbock
Nettles, W. T.	Waco

Newsom, Reva	Brownfield
Nichols, Mary Ella	Lubbock
Nix, Darwin R.	Wellington
Nix, Fred	Lubbock
Nix, Ganie	Lubbock
Nixon, Minnie	Owens
Nixon, Walton	Waco
Noel, Eudora	Ralls
Noel, Wayne C.	Rice
Norman, Floyd A.	Lubbock
Norred, J. Wesley	Mt. Calm
Nott, Willard M.	Waco
Nowlin, Hazel Dale	Rotan
Nunnelee, Bradford	Bonham
Nutting, John	Amarillo
O'Dell, J. T.	Abilene
Odom, Alyne	Lubbock
Odom, Katherine	Lubbock
Odom, Nina May	Lubbock
Officer, Ruth	Turkey
Oglesby, Hazil	Lubbock
Oglesby, Vivian	Lubbock
Oldham, Billie	Lueders
O'Neal, Blanche	Breckenridge
O'Neill, H. B.	Abernathy
O'Neal, Jim H.	Panhandle
Orsborn, Sparks	Pecos
Osborne, Gertrude	Clarendon
Osborne, J. H.	White Deer
Osborne, Weldon Truett	Lubbock
Overstreet, Corinne	Lubbock
Owen, Laurance	Lubbock
Owen, Mary Jean	Lubbock
Owen, Newburn	Tyler
Owen, Wilson	Coleman
Owens, Annie Lee	Lubbock
Owens, Clive	Forney
Owens, Ross	Lubbock
Pace, Betty	Big Springs
Painter, Raymond	Lubbock
Palmer, Mildred	Albany
Palmore, John	Ravenna
Pankey, Florence	Anton
Parker, Bob	Lucille, New Mexico
Parker, Colton Sidney	Rankin
Parker, Mary Edna	Lubbock
Parker, M. E.	Lucille, New Mexico
Parker, Thalia	Lubbock
Parkinson, Fitzhugh (Cap.)	Lubbock
Parks, Bruce	Clifton
Parrish, Ruby	Lubbock
Partain, Joe M.	Lubbock
Pass, Lillard	Rogers
Patterson, Benton Wm.	Slaton
Patterson, Johnnie Mae	Plains
Patterson, Lua Bernice	Rotan
Patterson, Malcolm	Big Spring
Patterson, Pauline	Rotan
Paul, Beatrice	Hermleigh
Payne, Ameral	Lubbock
Payne, Ethridge	Olton

Payne, Mrs. George D.	Lubbock
Pearson, Nannie Marie	Lorenzo
Pearson, Wilbur L.	Lorenzo
Pelham, Luta M.	Rosebud
Pendley, H. M.	Waxahachie
Penney, Ralph E.	Lubbock
Penney, Ruby	Lubbock
Pennington, Cleatius	Amherst
Periman, Vera	Snyder
Perkins, Everett	Ennis
Perkins, Lois	Stamford
Perrin, Bill	Dickens
Perry, Claig H.	Coleman
Perry, Elsie	Quanah
Perry, Evelyn	Lubbock
Perry, Hubert	Lewisville
Perry, Irene	Lubbock
Perser, Lola	Crosbyton
Peters, Erika Carolyn	Galveston
Peters, Helena	Lubbock
Pettigrew, John	Grady, New Mexico
Peterson, Carl S.	Lamesa
Pettus, T. F., Jr.	Moran
Pevehouse, W. M.	Lubbock
Pflugger, Carl	Eden
Pflugger, Raymond	Eden
Phillips, Bernice	Lubbock
Phillips, Ruby	Burnside, Kentucky
Phillips, Robert	Lubbock
Pickett, Elvis E.	Dalhart
Pickett, Florence E.	Lubbock
Pickett, J. B.	Kempner
Pickett, R. C.	Kempner
Pickett, Viola Maye	Lubbock
Pierce, A. A.	Shallowater
Pierce, James Porter	Clarendon
Pierce, Louise	Lubbock
Pinston, Mrs. A. Joe	Eldorado, Oklahoma
Pinskston, Fred Dennis	Lubbock
Pinson, Mrs. Bert	Lubbock
Pirtle, Zora B.	Levelland
Poage, Scott A.	Waco
Poe, Marion	Harrisonville
Pogue, Guy	Cedar Hill
Pool, Anabel	Childress
Pool, Buster	Levelland
Pool, Juanita	Lubbock
Poole, Gertrude	Abernathy
Porter, J. K.	Welder
Porter, Martha	Floydada
Porter, Polly	Snyder
Pounds, Davis	Lubbock
Pounds, Minnie	Lamesa
Powell, Archer L.	Spur
Powell, Carolyn	Lubbock
Powell, Edwina	San Antonio
Powell, Harold	Lubbock
Powell, Jeanette	Lubbock
Powell, John R.	Dumas
Powell, Millard Aury	Gatesville
Powell, St. Elmo	Memphis
Powers, Elliott	Overton

Powers, Percy George	Perryton
Pray, Bernice	Lubbock
Pressley, Kate	Lubbock
Pribble, Iris	Hamlin
Price, Christine	Lubbock
Price, H. Y., Jr.	Lubbock
Price, Juanita	Lubbock
Price, Lucille	Rotan
Prichard, Martin	Bomarton
Prim, Margaret Dell	Snyder
Proctor, Cecil	Lampasas
Proctor, Mildred	Lorenzo
Proctor, Talbert	Merkel
Prosser, Irma	Roscoe
Puckett, Earl F.	Ada, Oklahoma
Puckett, Margaret	Amarillo
Puckett, Olen L.	Fort Worth
Pyeatt, Lloyd	Amarillo
Quick, Mary Eleanor	Lubbock
Quinn, Marion	Grand Saline
Ragland, Mrs. Lee	Lubbock
Ragland, T. Clarke	Lubbock
Ragle, Eleanor	Lubbock
Rainwater, Elwin	Winters
Rainwater, R. C.	Oklahoma
Ramp, Robert	Lubbock
Rankin, Mary E.	Texico, New Mexico
Rankin, Murrel	Lubbock
Ratliff, Corene	Lubbock
Ratliff, Muri	Lubbock
Rawlings, Marshal F.	Whittenburg
Rawlings, Malcolm W.	Whittenburg
Ray, Jack	Ringgold
Ray, Zelda	Lubbock
Red, Ray	Wortham
Reed, Bruce	Vernon
Reed, J. Clayton	Lubbock
Reed, Mrs. R. C.	Lubbock
Reeder, Ola	Lubbock
Reeves, Bion C.	Bonham
Reeves, Cordell	Sweetwater
Reeves, Forest	Lubbock
Reeves, Hazel	Lubbock
Reeves, Helen	Plainview
Reeves, Mrs. Leola	Lubbock
Reeves, Lloyd	Dallas
Reid, J. L.	Eastland
Renfro, James R.	Lubbock
Renfro, Mrs. Margaret	Lubbock
Renfro, Marvin C.	Kirven
Rhea, Dimple	Lubbock
Rhodes, John T.	Grand Saline
Rich, Fred T.	Lubbock
Richards, Evelyn Gladys	Seminole
Richards, Johnie Bess	Lubbock
Richardson, Eunice	Lamesa
Richardson, Fay	Ropesville
Richardson, James K.	Stratford
Richardson, Vase	McLean
Richardson, W. J.	Megagel
Richey, Edith	Spur

Riddle, Hollyce Marie	Fort Worth
Riggins, Lonnie	Groom
Rigney, F. N., Jr.	Lubbock
Riley, Cleo	Eagle Pass
Risinger, A. P.	Lubbock
Risinger, G. B.	Warren
Ritcheson, Wm. H.	Dallas
Ritchie, Calvin L.	Canyon
Roach, Mrs. Arvie W.	Shallowater
Roach, Pauline	Clarendon
Roane, W. E.	Valley View
Robbins, Lydia	Lubbock
Robbins, Ora Mae	Lubbock
Robbins, Wallace	Lubbock
Roberson, Horace	Lubbock
Roberson, Hugh	Lubbock
Roberson, Oran	Lubbock
Roberson, Sherrill	Lubbock
Roberts, Mrs. C. E.	Lubbock
Roberts, Holman	Tulia
Roberts, J. Harold	Lubbock
Roberts, Joe Y.	Crowell
Roberts, Rector P.	Amarillo
Roberts, Voleta	Lubbock
Robertson, Helen Princess	Lubbock
Robertson, Robert	Quanah
Robinson, John	Childress
Robinson, Oval	Childress
Robinson, R. L., Jr.	Mt. Calm
Robinson, W. A.	Dalhart
Robinson, Willie M.	Hollis, Oklahoma
Robison, Jennie L.	Lubbock
Rodgers, Elizabeth	Lubbock
Rodgers, Lilah Gaye	Lubbock
Rodgers, Morton	Amarillo
Rogers, Alice Muse	Lubbock
Rogers, Mildred	Plaska
Rollins, Doris	Seminole
Rollins, Fred	Seminole
Rollo, C. J.	Lubbock
Roloff, Melvin	Dawson
Rosson, Mrs. G. H.	Lubbock
Roussel, Bill Arthur	Brownwood
Routh, John	Trenton
Rowland, Virgil	Anton
Royalty, Mary F.	Lubbock
Rozzell, Lola Mae	Lubbock
Rush, Rosa Lee	Silverton
Rushing, Bobbie	Floydada
Rushing, C. Alton	Woodville
Rushing, Dorothy	Lubbock
Rushing, W. B.	Lubbock
Russ, Roland G., Jr.	Lubbock
Russell, Hugh	Weslaco
Russell, James L.	Denver, Colorado
Rylander, Dorothy	Lubbock
Sammons, D'Aun	Lubbock
Sampson, Mrs. Ethel	Lubbock
Sanders, Jerome F.	Haskell
Sanders, J. Oran	Sweetwater
Sansom, Marian	Lubbock
Sasser, Roscoe	Wellington

Sawyer, Ludie Nell	Evant
Sawyer, Ray	Lubbock
Scarborough, B. A.	Lubbock
Scarborough, Hal	Bangs
Schenck, Walter	Lubbock
Schlagel, Martha	Crowell
Schmidt, Bernard	Pampa
Schultz, Geneva	Lubbock
Scott, Bruce H.	Saint Jo
Scott, Byril	Frost
Scott, Rozelle	Idalou
Scudder, James Robert	Graford
Seale, Lela	Lorenzo
Searles, John P.	Athens
Seitz, LeRoy	Wingate
Senter, Marvin	Lubbock
Senter, Mary Frances	Lamesa
Senter, S. Richard	Lamesa
Settle, J. Doyle	Abernathy
Sewell, Wm. R.	Slaton
Shaffer, Mable	Sudan
Shannon, J. Byron	Lubbock
Shaw, Christene	Lubbock
Shaw, Fred	Crosbyton
Shaw, Lankford R.	Dallas
Shaw, Thomas H.	Lelia Lake
Shaw, Lynn G.	Kaufman
Sheid, Edith	Silverton
Shelby, Dee Alva	Lubbock
Shelby, Roy Leon	Waco
Shell, Freeman	Lawton, Oklahoma
Shelton, E. G.	Lubbock
Shepard, Mrs. Minnie L.	Lubbock
Shepherd, Mrs. M. L.	Lubbock
Sherman, F. H.	Whitney
Sherrill, Magie M.	Seagraves
Shirley, Ana Belle	Littlefield
Shook, J. V.	O'Donnell
Short, Eddie L.	Bradshaw
Shurbert, Marvin	Lockney
Sides, J. M.	Lubbock
Sides, King J.	Estancia, New Mexico
Simkins, Jewell	Ralls
Simmons, E. Clifford	Santa Anna
Simmons, K. Damon	Oklahoma
Simmons, Mary Joe	Spur
Simms, Cecil P.	Panhandle
Sims, C. B.	Gorman
Singleton, Chas. O. B.	Houston
Slaton, Oscar	Lubbock
Slaton, Ruth	Lubbock
Slaughter, Gordon	O'Donnell
Smallwood, Ronald	Lubbock
Smith, Adolphus	Brownfield
Smith, Chester	Wilson
Smith, Clarence	Palo Pinto
Smith, D. Wilson	Llano
Smith, Elmore	Haskell
Smith, Eugene	Vernon
Smith, Florice	Lorenzo
Smith, George Elton	Longworth
Smith, Geraldine	Lubbock

Smith, Geron	Lubbock
Smith, H. C.	San Angelo
Smith, Katherine	Hale Center
Smith, Kenneth	Lubbock
Smith, Leslie	Lubbock
Smith, Madelle	Lubbock
Smith, Morton J.	Lubbock
Smith, Ruth	Lubbock
Smith, Theo. H.	Temple
Smith, Tom C.	Hale Center
Smith, Veda	Grady, New Mexico
Smythe, Douglas	Strawn
Sneed, Alton	Lubbock
Sneed, Frances	Lubbock
Snodgrass, Jarvis	Ralls
Snodgrass, N. K.	Acuff
Snodgrass, Wm. Weldon	Acuff
Snyder, Anne	Lubbock
Snyder, Mary	Lubbock
Sowder, Eppie (Mrs.)	Lubbock
Sowa, Edwin	Lubbock
Sowell, Evelyn	Lubbock
Spacek, Edwin	Granger
Sparkman, Colonel	Bonham
Sparkman, Robert E.	Italy
Sparks, Earl	Olton
Speer, J. E.	Lubbock
Speer, Mrs. Mildred	Lubbock
Spencer, Haynie	Cross Plains
Spencer, Mrs. Percy	Lubbock
Spikes, Wilda	Ralls
Spikes, Wilma	Ralls
Spivey, Robert C.	Jacksboro
Sprawles, Murl	Scranton
Spring, Frank A.	Friona
Stafford, Veta	Lubbock
Stahl, Frances	Lubbock
Standlee, Nelle M.	Lubbock
Stanford, Marvin	Stamford
Stanhiser, Nils Monroe	Clifton
Stanton, Mary Alyce	Lubbock
Staton, Nancy	Hollis, Oklahoma
Steen, Alfred B.	Loving
Stephens, M. F.	Shallowater
Stevens, Raymon	Lubbock
Stewart, Delbert	Texline
Stewart, Evelyn	Lubbock
Stewart, Kathleen	Waco
Stiles, Audrey	Floydada
Stiles, Zona	Annona
Still, Hamilton	Ropesville
Still, Houston	Dallas
Stinebaugh, John S.	Nevada
Stockwell, E. Carlos	Volga, South Dakota
Stoker, Lakawanna	Lubbock
Stone, Frank H.	Panhandle
Stovall, Truett L.	Memphis
Strange, James A.	Tulia
Stratton, C. D.	Goree
Street, Clara (Mrs.)	Lubbock
Street, Wm. Ezra	Lubbock
Strickel, T. L.	Lubbock

Stuart, Bettie K.	Wilson
Stubblefield, Joe	Groom
Stults, Carl	Dallas
Suddath, Clyde	Henrietta
Suggs, Gussie	Crosbyton
Summerlin, Lois	Lamesa
Sumrall, Alton W.	Slaton
Swift, Calvin	Osage
Swinney, Clona	Rule
Tadlock, J. H.	Amarillo
Tarrant, Maurice A.	Bullard
Tatum, Bill	Lubbock
Tatum, John E.	Waco
Tatum, Martha James	Tatum, New Mexico
Taylor, Mrs. Alex	Lubbock
Taylor, Ben	Levelland
Taylor, Bob	San Saba
Taylor, C. R.	Gatesville
Taylor, Elliott	Lubbock
Taylor, H. W.	Clarendon
Taylor, Horace	Levelland
Taylor, Lillie Irene	Bellevue
Taylor, Ethel Lorene	Lubbock
Taylor, Otis	Lubbock
Taylor, Robert A.	Stratford
Taylor, Robert L.	Childress
Taylor, Roy D.	Russelville, Arkansas
Taylor, Thomas L.	Stratford
Teague, Enloe	Olney
Teague, J. M., Jr.	Lubbock
Teague, Joyce	Lubbock
Teague, Louise	Rule
Teague, T. G.	Howe
Temple, Winnie	Lorenzo
Terrell, Byron A.	Westbrook
Terrell, Gertrude	Lubbock
Thomas, Harrison	Eastland
Thomas, Ray	Tehuacana
Thomas, W. S.	Mineola
Thomason, Glenn	Memphis
Thompson, Lola	Lubbock
Thompson, Mary Lois	Lubbock
Thompson, O'Brien	Abernathy
Thompson, Pauline	Lubbock
Thompson, T. W., Jr.	Greenville
Thomson, Russell	Ballenger
Thorp, Naoma	Lamesa
Thorp, Roy	Lubbock
Thurkill, Mary Belle	Holliday
Tiller, Mabel	Malta
Tilory, Elizabeth	Lubbock
Timmons, Mary Frances	Meadow
Tiner, Joe	Trent
Tiner, Virginia	Lubbock
Tom, R. C.	Lubbock
Tomme, Eustace R.	Teague
Townsend, John T., Jr.	Galveston
Tredway, Will Ed	O'Donnell
Trigg, Margaret	Lubbock
Trigg, R. M.	Childress
Trostle, Nevin E.	Shamrock
Trotter, Marie	Lubbock

Tubbs, Mrs. Sue Alice	Lubbock
Tucker, Will M.	Ovalo
Turbiville, Eugene B.	Llano
Turner, Earl H.	Lubbock
Turner, Margaret	Lubbock
Turner, Rowena	Lubbock
Turner, William	Brownwood
Turpin, Vivian	Meadow
Tusha, Ercel	Elida, New Mexico
Tyer, Ruth	Lubbock
Underwood, Clarence	Walnut Springs
Underwood, Mary Jo	Vernon
Underwood, S. Denton	Hale Center
Van Dyke, Alfred J.	Lubbock
Vannerson, Lucien	Tulia
Vannoy, Joellene	McLean
Van Noy, M. P.	Lubbock
Van Pelt, Mrs. D.	Shallowater
Vardy, P. L.	Estelline
Varley, Wallace	Collinsville
Varley, Wayne	Collinsville
Vaughan, Leroy	Lubbock
Vaughan, Roberta	Quanah
Vaughn, Donna	Lubbock
Vaught, Clemmie Jane	Post
Vennum, R.	Roswell, New Mexico
Vermillion, E. B.	Bowie
Vermillion, Irene	Bowie
Viles, Christine	Lubbock
Viles, Prentiss	Lubbock
Vinzant, Dennis	Lamesa
Wade, Lora	Snyder
Waghorne, Arthur	Lubbock
Waghorne, Mrs. W. R.	Lubbock
Walden, Lorna Beth	Lubbock
Waldrop, L. E.	Clifton
Wales, Eula Marie	Georgetown
Wales, Lola Fae	Georgetown
Walker, Alma	Sudan
Walker, Ester Calvin	Sudan
Walker, Ike J.	Olton
Walker, James A.	Huntsville
Walker, Jessie A.	Lubbock
Walker, Levi	Mission
Walker, Ransom	Mission
Walker, William	Abilene
Wallace, A. Dayle	Mt. Calm
Waller, J. D.	Pickton
Ward, Keith	Paducah
Ward, Kenneth C.	Amarillo
Wardell, Winnifred A.	Avery
Ware, R. C.	Lovington, New Mexico
Warnock, Lovie	Fort Stockton
Washburn, Grady D.	Loving
Wassell, Ralph L.	Higgins
Wassum, Ernest Albert	Meadow
Waters, G. Dallas	McLean
Watkins, Grace	Lubbock
Watkins, Ira	Meadow
Watkins, L. W.	Leonard
Watkins, Vivian L.	Lorenzo

Watson, James E., Jr.	Lubbock
Watson, Jessie	Byers
Watson, Leonard J.	College Station
Watson, Lillyan	Lubbock
Watson, Lou Alice	Lubbock
Watson, Tom	Haskell
Watts, Ray	Pyote
Wayland, Bob	Plainview
Weaver, A. V., Jr.	Lubbock
Webb, Holmes	Lubbock
Webb, H. P., Jr.	Olton
Webb, Juanita	Lubbock
Webb, Robert M.	Lubbock
Webber, Glenn	Brownfield
Weddle, Wilson N.	Bonham
Weeden, William C.	Lone Oak
Weilenman, Donald A.	Lubbock
Wesner, Ernest Franklin	Sweetwater
West, Cornelia	Wolffarth
West, Jeff B.	Hagerman, New Mexico
Westbrook, Mary Hope	Sipe Springs
Westerfeldt, J. W.	Cisco
Westergard, Edward Victor	Taylor
Westmoreland, Jerry A.	Rule
Whatley, Kathryn	Lubbock
Wheeler, Esther Grace	Lorenzo
Wherry, John K.	Canyon
Whipp, Peggy	Lubbock
White, Mrs. E. E.	Lubbock
White, Frank A., Jr.	Lubbock
White, Mrs. Lloyd	Lubbock
White, Robert	Clarendon
White, Ross	Littlefield
White, W. T.	Lubbock
Whitehead, K. C.	Sudan
Whitehead, Norine	Sudan
Whiteley, W. A.	Merkel
Whiteside, Clarence	Lubbock
Whiteside, James	Lubbock
Whitis, T. S.	Levelland
Wicks, Alvord	Ralls
Wiggins, Alpha	Lubbock
Wiggins, Fay	Lubbock
Wigington, Clarence	Lubbock
Wilemon, Cash	Stamford
Wiles, Juanita	Olton
Wilhelm, Mrs. D. J.	Lubbock
Wilke, Elouise	Lubbock
Wilkes, Orby A.	Floydada
Wilkins, George Y.	Lubbock
Wilkinson, Edna	Vernon
Williams, Abner Oliver	Woodville
Williams, Cecil	Lubbock
Williams, Ethel	Lubbock
Williams, Faye	Lubbock
Williams, Fred Louis	Glen Rose
Williams, Grace	Lubbock
Williams, Hogue C.	Hamilton
Williams, James P.	Lubbock
Williams, Johnie	Mullin
Williams, Luther Hallam	Lubbock
Williams, Margaret H.	Lubbock

Williams, Marvin	Lubbock
Williams, Mittie E.	Lubbock
Williams, Raymond	Floydada
Williams, Samuel	Stamford
Williamson, C. L.	Lorenzo
Williamson, Joy May	O'Donnell
Williamson, Julian S.	Lubbock
Williamson, Lois	Lubbock
Williamson, Silas F.	Lubbock
Willingham, Mrs. C. E.	Lubbock
Willis, John W.	Mineola
Wilson, Dorothy	Lubbock
Wilson, Harold	Plainview
Wilson, Henrietta	Lubbock
Wilson, Ivo	Quanah
Wilson, Jasper Lewis	Troup
Wilson, Joe	Itasca
Wilson, Mabry	Hamlin
Wilson, Quentin	Jean
Wilson, Randolph L.	Floydada
Wilson, Retta	Hamlin
Wilson, Sylva	Lubbock
Wilson, Thelma Helen	Slaton
Wilson, William Loal, Jr.	Fort Worth
Wilson, Zimmie	Jacksboro
Wingo, John Hubert	Sudan
Winter, Ward	Fort Stockton
Wisdom, Ernest	Claude
Wisdom, John E.	Claude
Wise, Eufaula	Lubbock
Wise, Julia Alice	Rockwood
Witherspoon, Thomas	Dalhart
Witt, Mrs. I. R.	Lubbock
Wolfe, W. Glen	Lefors
Wolffarth, Louise	Lubbock
Wolffarth, Mamie	Lubbock
Womack, Helen	Lubbock
Womack, Jack	Roaring Springs
Womack, Sam H. J.	Colorado
Wood, Angus David	Kress
Wood, John H.	Chico
Wood, Mrs. W. C.	Lubbock
Woodfin, Myrtle	Snyder
Woods, Bert E.	Lubbock
Woods, Clarence	Lubbock
Woods, Doyle	Graham
Woodson, Harold	Memphis
Woodson, M. Evelyn	Lubbock
Woolam, M. O.	Smyer
Wooldridge, C. W.	Shawnee, Oklahoma
Woosley, J. K., Jr.	Tahoka
Workman, W. O.	Lubbock
Worley, L. B.	Snyder
Worley, T. C.	Snyder
Wright, Beulah	Lubbock
Wright, Charles	Lubbock
Wright, Ellis	Palmer
Wulfman, Beth	Lubbock
Yoakum, Opal	Sweetwater
Yoder, Carter	Van Alstyne
Yoder, Hal D.	Snyder
Yonge, Edna	Post

Young, Nellie.....	Lubbock
Young, Virgil.....	Plainview
Youngblood, Cyril.....	Shamrock
Youngblood, Wade.....	Clarendon
Zeigler, Ruth.....	Shamrock
Zellner, Lloyd.....	Lubbock
Zeman, Blanche.....	Abernathy
Zinn, Ella.....	Lubbock

DEGREES CONFERRED BY THE TEXAS TECHNOLOGICAL COLLEGE

SCHOOL OF LIBERAL ARTS

Bachelor of Arts

May 30, 1927.

Mayme Alexander
E. Marshall Barnett
Mary Dale Buckner (Mrs.)
Edmond Weymon Camp, Jr.
Claude Spaulding Denham
L. T. Green
Esther Burney Groves (Mrs.)

Annie Wood Howell
Kathleen Ingram
Charles Wesley Ratliff
Pauline Roach
Dewey Hobson Roberts
Pauline Trippett
Mary Hope Westbrook

August 24, 1927.

Alice Alverson
Rossie Beth Bennett
Edith Carter
Ira Mary Crouch
R. T. Groves
Willie Mae Hawthorne

Marian Bradford Morrison (Mrs.)
Rebecca Quinn
Alma Spikes
Eldon Martin Thorp
Faola Warren
Sylva Wilson

May 28, 1928.

Xen Brown
Vivian Crawford Burran (Mrs.)
Robert Guy Carter
Mart Chamberlain
Irwin Weldon Coleman
Lois Cone
Gusceita Leslie Cude (Mrs.)
Claire Teague Doak (Mrs.)
Melvin Nisbett Dow
Baylor Durham
Houston Belvo Eggen
Marion Fielding Green
Hugh Marion Hancock
Pearl Lee Harper
Kenneth R. Hemphill
Perry Campbell Holder
Glenys Alyne Honey
Ruth Horn
Norma Hulme
Lela Marie Jackson
Bess Johnston

Wynona Jones
Margaret Lucille Lucas
Glen Alexander Milam
William Winfield Nicklaus
Joe Noah
Zelda Wisdom Ray
Wilma Robbins
Raymond Hoff Rogstad
Lola Mae Rozzell
Mattie Russell
Matthew Shepherd
Zelda Francis Smelser
Guy Stark, Jr.
Owen Mitchell Stewart
William McBee Tucker
J. M. Teague, Jr.
Alva Dayle Wallace
Elizabeth Thompson Wedgeworth
Carl Hammel Willingham
Verna Mae Wilson
William James Wyly

August 24, 1928.

Mary Lottie Arwine
Lyman Olwein Ashby
Claborn J. Bell, Jr.
Glenda Crawford
Melba Crawford
Florence Guenzel Dodson (Mrs.)
Giles Levi Farrar
Lillian E. Ferguson
Ruth Gwen Forbess
Grace Olivia Geppert
Willis James Gray

Gertrude Juanita Haney
Marlin R. Hayhurst
Dahlia Hemphill
William De Rossett Henson
Tom B. Morrison
Nettie Mullino
Almeda Murray
Marry Frank Nichols
Ruth Noah
Cymbol Patterson
Altha Bill Poage

Marvin Pynes
 Cornelia Eveyln Ratliff
 Charles Brian Read
 Deward Homan Reed
 Virginia Massey Rogers
 Evelyn Catherine Scarborough
 Eula Raye Simmons

Ruth Elizabeth Starnes
 Mary Edna Steele
 C. Frances Thomas Van Pelt (Mrs.)
 Lorelle Wallace
 Louise Warren
 Ivy Randolph Witt
 Mamie Wolffarth

Master of Arts

August 24, 1928.

Horace Bailey Carroll (B. A., Texas Technological College), Thesis: "Social Life in West Texas from 1875 to 1890."

Raymond Willis Matthews (B. A., Southern Methodist University), Thesis: "Financial Survey of the Lubbock City Schools for the School Year 1927-28."

Walter Irwin Wilkins (B. A., Howard Payne College), Thesis: "Pathological Condition of the Plains Country."

SCHOOL OF ENGINEERING

May 28, 1928.

James Bradford Biggers

Bachelor of Science in Civil Engineering.

Thelmer Allen Rogers

Bachelor of Science in Electrical Engineering.

Ted Sams

Bachelor of Science in Civil Engineering.

SCHOOL OF AGRICULTURE

Bachelor of Science

May 28, 1928.

Felix Glen Blackmon

Elton Mims

Lester E. Brooks

Guy Edgar Orr

Sam Will Chatham

Raymond C. Reed

Dan S. Gillean

Lonnice M. Starr

Leslie C. Jennings

Chester L. Weaver

Charlie Douglas McGehee

SCHOOL OF HOME ECONOMICS

Bachelor of Science

May 28, 1928.

Marguerite Cross Barnett (Mrs.) August 24, 1928.

Faye Brooks

Ella Brown

Nena Roberson

Ella Mae Lyle

Lula Belle Rushing

Mary Leola Cox Sides (Mrs.)

Estelle Shepard

Rena Smith

Leah Merle Williams

NUMBER OF GRADUATES TO DATE

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Agriculture	11
Home Economics	10
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