

BULLETIN
OF THE
TEXAS TECHNOLOGICAL
COLLEGE

PUBLISHED FOUR TIMES A YEAR

VOL. V

APRIL, 1929

No. 2



SUMMER SESSION

FIRST TERM, JUNE 3 TO JULY 13

SECOND TERM, JULY 15 TO AUGUST 23

1929

Entered as second-class matter December, 1924, at the Postoffice at Lubbock,
Texas, under the Act of August 24, 1912.

INSCRIPTIONS ON ADMINISTRATION BUILDING, TEXAS TECHNOLOGICAL COLLEGE

NORTH SIDE

To right of main entrance: "Cultivated mind is the guardian genius of democracy. It is the only dictator that freemen acknowledge, the only security that freemen desire."—*Mirabeau B. Lamar.*

To left of main entrance: "Righteousness exalteth a nation, but sin is a reproach to any people." *Solomon.*

Above third story window, east end of building, the faces of five outstanding men in American history; namely, Columbus, Washington, Lincoln, Lee, Wilson.

Above third story windows, west end of building, the faces of five outstanding men in Texas history; namely, Houston, Austin, Crockett, Johnston, Hogg.

The great seal of the College.

The great seals of the six nations under the flags of which Texas has been; namely, France, Spain, Mexico, The Republic of Texas, The Confederacy, The United States of America.

The four great institutions of society: Home, State, Church, School.

Seven subjects that the Texas Technological College is designed to teach; namely, Agriculture, Science, Manufacturing, Democracy, Home Making, Art, Literature.

Seven educational products which the Texas Technological College is specifically designed to bring forth; namely, Patriotism, Religion, Industry, Virtue, Wealth, Enlightenment, Citizenship.

SOUTH SIDE

The names of fifteen people, above the archway, showing those lines of human endeavor considered most worth while:

For poetry, Homer and Shakespeare.

For medicine, Hippocrates.

For divinity, Paul.

For architecture, Michael Angelo.

For teaching, Pestalozzi.

For statecraft, Gladstone.

For pure science, Newton.

For applied science, Pasteur.

For common sense, Franklin.

For invention, Edison.

For science in the vegetable world, Burbank.

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COLLEGE CALENDAR

June 3, Monday. Registration for summer session.

June 3, 4, 5, Monday, Tuesday, Wednesday. Entrance examinations.

June 4, Tuesday. Classes begin.

July 2, 3, 4, Tuesday, Wednesday, Thursday. A personally conducted trip to Carlsbad Cave for those who are interested.

July 4, Thursday. A holiday.

July 13, Saturday. First term closes.

July 15, Monday. The Cotton School opens.

July 15, Monday. Registration for second term.

July 16, Tuesday. Classes begin.

August 3, Saturday. A trip to Carlsbad Cave for those who are interested.

August 10, Saturday. The Cotton School closes.

August 23, Friday. Summer school closes.

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

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

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

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

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 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

Term Expires 1935

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

COMMITTEES OF THE BOARD

EXECUTIVE COMMITTEE

R. A. UNDERWOOD, *Chairman*

JOHN W. CARPENTER.....MRS. F. N. DRANE

BUILDING COMMITTEE

C. G. COMEGYS, *Chairman*

JOHN W. CARPENTER.....FRANK E. CLARITY

LOCAL AFFAIRS COMMITTEE

H. T. KIMBRO, *Chairman*

R. A. UNDERWOOD.....E. O. THOMPSON

FINANCE COMMITTEE

JOHN W. CARPENTER, *Chairman*

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.

SUMMER SCHOOL COMMITTEE

J. M. GORDON, *Dean of the School of Liberal Arts, Chairman.*

A. W. EVANS, *Professor of Education, Head of Department.*

J. C. GRANBERY, *Professor of History, Head of Department.*

OFFICERS OF INSTRUCTION

SUMMER SESSION, 1929

PAUL WHITFIELD HORN, *President.*

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

GRACE BAKER, *Instructor in Clothing and Textiles.*

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

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

B. A., Soroë College; M. A., LL. B.; LL. M., Copenhagen.

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

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

EDMOND WEYMAN CAMP, *Professor of Textile Engineering; Head of Department.*

B. S. in T. E., Georgia School of Technology, 1901.

HORACE BAILEY CARROLL, *Instructor in History.*

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

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

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

LLOYD C. CHRISTIANSON, *Instructor in Mathematics.*

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

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

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

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

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

WILLIAM MOORE CRAIG, *Professor of Chemistry.*

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

LOY CROSS, *Graduate Assistant in Chemistry.*

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

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

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

B. A., Texas, 1910.

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

B. A., Texas, 1925.

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

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

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

M. A., Texas, 1926.

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

B. A., Oxford College, 1906; M. A., Texas, 1924, Ph. D., 1928.

GUS L. FORD, *Professor of History.*

M. A., Southern Methodist University, 1921.

RUPERT WINTHROP FOWLER, *Associate Professor of English.*

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

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

B. A., Vanderbilt, 1912.

RAYMOND ERNEST GARLIN, *Professor of Education.*

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

EUNICE J. GATES, *Instructor in Spanish.*

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

WILLIAM BRYAN GATES, *Associate Professor of English.*

B. S., Millsaps, 1918; M. A., Vanderbilt, 1921; M. A., Michigan, 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 Education in the Summer School.*

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.

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

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

WILLIAM CURRY HOLDEN, *Professor of History.*

B. A., Texas, 1923; M. A., 1924; Ph. D., 1928.

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

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

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

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

KENNETH LESLIE KNICNERBOCKER, *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.

BESSIE BEAKLY LEAGUE, *Associate Professor of Biology.*
B. A., Texas, 1921; M. A., 1925.

ARTHUR HENRY LEIDIGH, *Dean of Agriculture and Professor of Agronomy.*
B. S., Kansas State Agricultural College, 1902; M. S., Texas A. & M., 1923.

JOHNNIE HEMPHILL MCCRERY, *Professor of Foods; Head of Department.*
B. S., Columbia, 1920; M. A., 1923.

FLORA POWELL MCGEE, *Associate Professor of English.*
B. A., Colorado College; M. A., George Peabody College, 1924.

SETH SHEPARD MCKAY, *Professor of History.*
B. A., Texas, 1912; M. A., 1919; Ph. D., Pennsylvania, 1924.

F. L. MCREE, *Instructor in Civil Engineering.*
B. S. in C. E., Texas, 1925.

CLARENCE SIMPSON MAST, *Professor of Physics.*
B. S., Ohio Wesleyan, 1906; M. A., 1911.

RUFUS ARTHUR MILLS, *Professor of English.*
B. A., Texas, 1914; M. A., 1923.

RAY C. MOWERY, *Associate Professor of Animal Husbandry.*
B. S., Texas A. & M., 1921; M. S., Iowa State College, 1926.

DONALD VAN DALE MURPHY, *Assistant Professor of English.*
B. A., Tulsa, 1920; M. A., Columbia, 1926.

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.

VICTOR D. PAYNE, *Assistant Professor of Physical Training, Coach of Basketball and Track.*
B. A., Simmons University.

HARDISTON C. PENDER, *Associate Professor of Government.*
B. A., North Texas State Teachers College, 1921; M. A., Baylor, 1926.

RUTH PIRTLE, *Professor of Speech; Head of Department.*
Student Hickman School of Speech Arts; Lyceum Arts Conservatory, Colorado; California; Curry School of Expression, Boston; B. S., Columbia, 1928.

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.

ZELLA E. RIEGEL, *Assistant Professor in Physical Education for Women.*
B. A., Central College, 1925.

KENNETH MILLER RENNER, *Associate Professor of Dairy Manufactures; Head of Department.*
B. S., Iowa State College, 1921; M. S., Kansas State Agricultural College, 1927.

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

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

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

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

JAMES THOMAS SHAVER, *Associate Professor of Education.*

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

RAYMOND GILBERT SIDWELL, *Assistant Professor of Geology.*

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

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

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

GEORGE SMALLWOOD, *Professor of English.*

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

FRED WENCHELL SPARKS, *Professor of Mathematics.*

B. A., Southwest, 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.

ALFRED BELL STREHLI, *Assistant Professor of Spanish.*

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

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

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

ALAN LANG STROUT, *Assistant Professor of English.*

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

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.

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.

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

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

THOMAS DUDLEY BROOKS, Ph. D., Chicago, *Dean of School of Education, Baylor University. Lecturer in Education.*

BURL BRYANT, M. A., Chicago, *County Superintendent, Wichita Falls. Lecturer in Education.*

LEE CLARK, M. A., Texas, *Superintendent of Schools, Plainview. Lecturer in Education.*

L. B. COOPER, M. A., Texas, *Dean Clarendon Junior College. Lecturer in Education.*

M. H. DUNCAN, M. A., Yale, *Superintendent of Schools, Lubbock. Lecturer in Education.*

MRS. LELIA HAMMETT, *Specialist, Houston Public Schools, Palmer Penmanship and Public School Art.*

W. A. MCINTOSH, B. A., Alabama Polytechnic, *Superintendent of Schools Amarillo. Lecturer in Education.*

W. A. STIGLER, M. A., Texas, *Assistant Superintendent of Schools El Paso. Lecturer in Education.*

THE SUMMER SESSION

1929

The Summer Session of the Texas Technological College is an integral part of the college year. All courses offered by the Schools of Agriculture, Engineering, Home Economics, and Liberal Arts will have the same credit value as in the other quarters.

The enrollment in the previous summer sessions since the opening of the College has been as follows: 1926, 336; 1927, 677; 1928, 965.

For the accommodation of those who cannot devote the entire summer to study but who desire college credit, the Summer Session is divided into two terms of six weeks each. The first term will begin June 3 and will end July 13. The second term will open July 15 and close August 23. Classes will meet five times a week, from Tuesday to Saturday inclusive. Students may enter for either term or for both terms.

The entire College plant will be available for use, and many of the members of the regular faculty, assisted by visiting specialists of recognized standing, will offer both regular and special courses.

The normal amount of work for college credit which a student may take in the Summer Session is three subjects.

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

The Department of Education and Psychology offers a wide variety of courses, all of which lead to elementary, high school, permanent and special certificates.

A four weeks' cotton classing school will be given during the second term. The work will be under the direction of the head of the department, Professor E. W. Camp, who for several years conducted cotton classing courses at Georgia School of Technology in Atlanta. In addition to the cotton classing and study work, another course will be given on the testing of textiles which are made in Texas Technological College.

COURSES OFFERED

Courses will be offered in the four Schools of the College as follows:

School of Liberal Arts—Biology, including Botany and Zoology, Chemistry, Economics and Business Administration, Education and Psychology, English, French, German, Geology, Government, History, Latin, Mathematics, Music, Philosophy and Sociology, Physical Education, Physics, Spanish, and Speech.

School of Engineering—Civil Engineering, Electrical Engineering, Mechanical Engineering, Engineering Drawing.

School of Agriculture—Agricultural Education, Agronomy, Animal Husbandry, Dairy Manufacturing, Horticulture.

School of Home Economics—Applied Art, Clothing, Foods and Nutrition, General Home Economics, Home Economics Education.

More than two hundred and fifty courses, one hundred of which are advanced, will be offered during the Summer Session. All courses lead to college degrees.

GRADUATE STUDENTS

Graduate courses leading to the M.A. degree will be offered in the following departments: Economics and Business Administration, Education and Psychology, English, Geology, Government, History, Mathematics, Philosophy and Sociology.

HIGH SCHOOL GRADUATES

High school graduates who are entering college for the first time will find it advantageous to begin their college career during the Summer Session. In fact, high school graduates may enter and pursue college work with the expectation of completing the traditional four college years in three years by attending the present summer session and the two following summers in addition to three regular sessions.

The work offered in the Summer Session is especially planned to meet the needs of the following:

1. Elementary and high school teachers seeking certificate or degree credit.
2. Principals and superintendents desiring to study their special problems such as classification and grading, arranging course of study, and improving the teaching staff.
3. Pre-medical and pre-law students desiring to meet entrance requirements for professional schools.

4. Serious-minded men and women seeking a wider knowledge of some special subject or wishing broader general culture.

RECREATION

Recreation plans for the Summer Session have been formulated by a special committee of the faculty, and provide for group singing, band concerts, dramatic productions, moving pictures, a watermelon party, etc. The College will sponsor two trips—July 4 and August 3—to the Carlsbad Caverns in New Mexico, which in point of scenic interest is not surpassed by anything in America.

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 summer temperature is 77.5 degrees. This elevation and moderate temperature give Lubbock an agreeable and healthful summer climate, with cool nights, good breeze and dry atmosphere.

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.

Lubbock has 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 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.

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 make its own.

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.

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 impos-

sible 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.

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.

*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.

A full statement of admission requirements for each school of the College is given in the regular annual catalog, copy of which may be had by addressing the Registrar. The outline given above for entrance to the freshman class in the Schools of Home Economics and Liberal Arts. The Schools of Engineering and Agriculture do not require foreign language. In Engineering three and one-half units in mathematics are required, whereas additional science may be offered in lieu of the foreign languages.

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

*Vocational subjects.

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

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.

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.

ADMISSION TO INDIVIDUAL SCHOOLS OF THE COLLEGE

For specific requirements for admission to any of the four schools, see general catalog.

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.

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 complete in one term is described under one number, a course which extends over two or three terms carries a course number joined by a hyphen for each additional term after the first, e. g., English 131-2-3, or Industrial Engineering 4311-12-13, meaning that a subject extends over three terms.

GRADE POINT REQUIREMENTS FOR GRADUATION

To secure any degree in this College 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 EDUCATION

A minimum of two years' physical education for women and physical training or military training for men is required for graduation from the College. Participation in major college sports can be substituted for the regular work in physical education or physical training during the time engaged in college sports upon the recommendation of the coach of the various sports.

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

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 girl's 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.

EXPENSES

FOR SUMMER SESSION

Registration and incidental fee	10.00
Medical service	1.50

Library deposit (unused portion returnable at end of quarter or upon the student's withdrawal from College)--- 5.00

FOR EITHER TERM

Registration and incidental fee-----\$ 5.00
 Medical service charge----- 1.50
 Library deposit (unused portion returnable at end of term or upon the student's withdrawal from College)----- 5.00

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

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 a week, for six weeks-----\$18.00
 Voice, Mrs. McKnight, 2 lessons a week, for six weeks----- 15.00
 Piano, Miss Huff, 2 lessons a week, for six weeks, and one class lesson in theory----- 15.00
 Piano, Mrs. George, 2 lessons a week, for six weeks, and one class lesson in theory----- 15.00
 Violin, Mrs. Knickerbocker, 2 lessons a week, for six weeks 15.00

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

Scholarships and prizes for the year 1927-28 were awarded as follows:

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 expected that approximately \$800 income from the fund will be available by the opening of the Fall term.

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 man or woman 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 Technological College 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	Collector
Experiment station	College dairy
Assistant librarian	Waiter
Assistant in the Physics 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
Meat Cutter	Telephone exchange

ROOM AND BOARD

Approved lists of rooming houses, both for men and women, are always kept at the College and are being continuously revised. The Dean of Women, with her assistants, looks carefully after boarding and rooming houses for young women, while a regular boarding house committee of the College faculty assists young men.

Prices for room and board in private homes range from \$25 to \$35 per month.

LIGHT HOUSEKEEPING APARTMENTS

For the benefit of families who care to do light housekeeping, some apartments are available, including in many cases the use of a garage. Persons interested should write direct to Mr. Cecil Horne, Chairman of the Bureau of Information.

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 School of this College 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	9
Mathematics 137-8-9	9
Foreign Language	9
Physical Training, three terms.	
<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, three terms.	

Junior and Senior Years

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 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.

GENERAL REQUIREMENTS FOR GRADUATION

For requirements for graduation in general from the School of Liberal Arts and from the Schools of Engineering, Agriculture and Home Economics with their various curricula, see the general catalog.

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

*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.

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.

COURSES OF INSTRUCTION

SUMMER SESSION

There are two terms in the Summer Session, each practically complete within itself. Classes in each course meet five days a week, Tuesday to Saturday inclusive, each term carrying a full quarter's credit. In certain cases, definitely noted where a course is described, a full year's credit can be made in a term of six weeks. In other cases a full year's credit can be made in the two terms. The institution reserves the right to withdraw any course herein outlined where the demand does not prove sufficient to advise offering such course.

OUTLINE OF COURSES

BIOLOGY

131-2-3. General Botany. 9 hours. (First Term).

Open to freshmen students.

The major topics considered are the following: The plant and its environment; the cell; the leaf; the stem; the root; the flower; the fruit and seed; and a review of the plant groups from the algae to the flowering plants.

This is a full year's work offered in six weeks.

Laboratory fee, \$4.00; deposit, \$5.00. 9 term hours.

134-5-6. The Human Body. (Second Term.)

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. Especially recommended for teachers.

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

211-2-3. The Teaching of Biology. 3 term hours. (Second Term.)

Pre-requisite: 18 hours in the department of Biology.

This course may count either as education or as biology. It is conducted by means of lectures, assigned readings, reports, and laboratory problems. A study is made of the laboratory and its equipment, laboratory supplies, biological illustration, collections, exhibits, herbaria, types of biology courses, textbooks, references, biological institutions and workers and various other educational aspects of biology.

231. *Heredity.* (Second Term.)

Pre-requisite: 9 term hours in Botany or Zoology.

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

CHEMISTRY

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.

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.

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.

(Completion of the first half of this course will satisfy the requirements for Organic Chemistry of the schools of Home Economics and Agriculture, being regarded as the equivalent of Chemistry 331-2 of the long session.)

FEES

The fee for each course in the Department of Chemistry is \$4.00. A deposit of \$4.00 is required for Chemistry 141-2-3. For

Chemistry 343-4-5 the deposit is \$6.00. After deduction for breakage and non-returnable materials, the remainder of the deposit is returned to the student. No fee is returnable after a student has been in the course more than one week.

ECONOMICS

231-2. *Introduction to Economics.* (First Term.)

233. *Introduction to Economics.* (Second Term.)

Continuation of Economics 231-2.

234. *Introduction to Accounting.* (First Term.)

Pre-requisite: Sophomore standing.

235-6. *Introduction to Accounting.* (Second Term.)

Continuation of Economics 234.

331-2. *Introduction to Business Administration.* (First Term.)

A study of the institutions and functions of business; such general problems as Plant Location, Personnel, Marketing, Finance, etc., and the interdependence of these various phases for successful operation. Some case material is used which takes up the policies and methods of a few well organized companies.

Pre-requisite: Economics 231-2-3.

7-333. *Money, Banking and Business Cycles.* (First Term.)

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

Pre-requisite: Economics 231-2-3.

EDUCATION AND PSYCHOLOGY

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

EXTENSION OF CERTIFICATES

According to a law passed by the 41st Legislature, persons holding teachers' certificates that will expire this August, have

the privilege of extending such certificates one year, provided they do a minimum of 9 term hours work in college during the summer school.

NEW LAW FOR THE EXTENSION OF TEXAS TEACHERS' CERTIFICATES

The completion of six semester or nine term hours of college work in a summer school of any standard junior or senior college of Texas entitles the holder of any valid Texas certificate expiring after the opening of the summer school and during the current year to an extension of one year.

Certificates may be extended in this way from year to year, that is certificates extended last year may be extended for one more year and, if renewed before the extension expires, may be extended again.

This work may be done in six weeks. Texas Technological College offers two six weeks terms beginning June 3 and July 15 respectively.

Note.—(a) Any kind of valid legal State certificate, regardless of how obtained—whether by examinations, on college credits, or reciprocity—may be extended.

(b) The work must be done in residence. Correspondence work will not count.

(c) Three subjects or courses will mean six semester hours or nine term hours.

(d) Only college work—work above high school—will count; provided that those teachers who are unable to gain admittance into college because they lack entrance units, may be allowed the extension on doing the equivalent work given by Texas Teachers Colleges, and that the certificate to be extended is not one based upon work above high school grade (certificates of this class are those earned by examination and on sub-college work).

(e) No work done before or after the summer session of the year in which the certificate expires will count.

All teachers' certificates held by persons who are enlisted or may hereafter be enlisted in the United States army service during the War with Germany or any other foreign foe, shall, upon honorable discharge, be extended by the State Superintendent of Public Instruction, upon proper application, for a period equal to that in which the applicant was engaged in army service.

SPECIAL CERTIFICATES

Certificates authorizing the holders to teach the special subjects of agriculture, domestic science, domestic art, 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

031. *Penmanship.* (First Term.)

032. *Art.* (First Term.)

033. *Penmanship.* (Second Term. Continuation of first term.)

034. *Art.* (Second Term. Continuation of first term.)

131. *Introduction to Education.* (Both Terms.)

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. *Classroom Organization and Control.* (Both Terms.)

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.* (Second Term.)

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.

138. *Methods in Elementary English.* (First Term.)

139. *Methods in Elementary Mathematics.* (Second Term.)

232. *History of Education.* (First Term.)

Prerequisite: Sophomore standing.

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

233. *Measurement in Education.* (First Term.)

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.* (Both Terms.)

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.* (Both Terms.)

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.* (Both Terms.)

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

237. *Kindergarten-Primary Education.* (Both Terms.)

A study of the organization, materials and methods of the kindergarten-primary grades and the psychological principles upon which they are based. The work will include practice in program construction, lesson planning, examination of texts, etc.

2372. *The Teaching of Reading.* (First Term.)

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

2384. *Rural School Administration.* (First Term.)

The problem of the rural school; the rural teacher; supervision and administration of the rural school; state aid, state classification and state control.

238. *Literature in the Primary Grades.* (Second Term.)

An intensive study of the literature, both poetry and prose,

for children of various ages, involving actual practice in judging, evaluating, selecting, and telling stories for children.

330. *The Principal and His School.* (First Term.)

3311. *Materials and Methods of the Primary Grades.* (First Term.)

An advanced course for students who have had previous courses in Primary work. An examination and evaluation of the late materials and research problems pertaining to the first three grades.

332. *High School Problems.* (Second Term.)

The organization of the high school, the high school student; the selective character of secondary education; individual problems; selected topics.

333. *Practice Teaching.* (First Term.)

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.* (First Term.)

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.* (First Term.)

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.

3381. *Problem-Project Method.* (First Term.)

Basic principles underlying the problem-project method; its practical application to class-room procedure.

430. *The Sociological Principles of Education.* (First Term.)

A study of the school as social institution, its orientation and functioning in relation to other institutions, and the ideals and processes which underlie modern systems of public education.

434. *Education in the United States.* (First Term.)

Pre-requisite: Education 232, or its equivalent.

A comprehensive survey of educational history, theory, and

practice in the United States. Special attention will be given to the origin and development of public elementary and secondary education.

435. *The Curriculum.* (Second Term.)

Prerequisite: Senior standing or consent of instructor.

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

437. *School Publicity.* (First Term.)

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.* (Second Term.)

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.

530. *Research.* (Both Terms.)

Candidates for the M. A. degree who are engaged in writing theses will register for this course. Credit will be given if thesis is accepted.

532. *Public School Business Administration.* (Second Term.)

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

533. *Modern Trends in Education.* (Second Term.)

An examination and evaluation of current educational topics in the light of their origins, aims, values, and their most significant trends; the new in education explained by means of the old; so-called "fads and frills" interpreted.

PSYCHOLOGY

230. *Introduction to Psychology.* (First Term.)

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

231. *Educational Psychology.* (First Term.)

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.* (Second Term.)

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

331. *Child Psychology.* (Second Term.)

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.* (Second Term.)

335. *The Psychology of Adolescence.* (Second Term.)

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. (First Term.)

332. *Statistics.* Fundamental of Educational Statistics. (First Term.)

Fundamental of Educational Statistics.

339. *Statistics.* A continuation of first term. (Second Term.)

ENGLISH

First Term: Professors Carter, Mills, Doak. Associate Professor Gates. Assistant Professors Murphy, Strout. Instructors, Knickerbocker, Teague.

Second Term: Professors Carter, Smallwood. Associate Professors Fowler, McGee, Robnett. Instructor Knickerbocker.

English 131-2-3. Composition and Rhetoric. (Both terms.)

Lectures, themes, conferences, and assigned readings.

English 231-2-3. Survey of English Literature. (Both Terms.)

Introduction to the Study of Literature. Lectures, themes, and assigned readings.

330. Chaucer. (First Term.)

For graduates and under-graduates.

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

332. History of the English Language. (Second Term.)

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

336. American Drama—1900 to the Present. (Second Term.)

Individual and group tendencies in the drama.

337. Grammar for Speech. (Second Term.)

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

338. American Poetry—Bryant to Longfellow. (Second Term.)

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

432. Shakespeare and the Background. (First Term.)

Lectures, reports, and a study of three plays. For graduates and undergraduates.

433. Shakespeare Criticism. (Second Term.)

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

434. Milton. (Second Term.)

The major and minor English poems.

435. English Romanticism. (First Term.)

Selected poems of Burns, Wordsworth, and Coleridge.

438. Nineteenth Century Prose. (First Term.)

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

For graduates and undergraduates.

439. Contemporary Drama—Ibsen to Shaw. (First Term.)

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

531. The American Novel—1870 to the Present. (First Term.)

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

533. *Types of English and Foreign Fiction—1825 to 1910.* (Second Term.)

534. *Old English.* (First Term.)

An introduction to the phonology and morphology of Old English. Primarily for graduate students.

536. *Contemporary English and American Essays.* (First Term.)

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

3310. *Methods of Teaching English in the High School.* (Second Term.)

FRENCH

131. *Beginners' French.* (First Term.)

Grammar, reading, conversation.

132-3. *Beginners' French.* (Second Term.)

Continuation of French 131. Two hours a day.

231. *Grammar, Composition, Reading, and Conversation.* (First Term.)

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

232-3. *Continuation of French 231.*

Two hours per day.

GEOLOGY

131. *Geography.*

Elementary principles of geography. Second term devoted to Commercial Geography.

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. A study of the present features of the earth and the processes which have brought the surface to its present state. Training in the scientific method of investigation and in the interpretation of topographic maps and geologic folios. Work with minerals, rocks, fossils, and other geological material.

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.

390. *Advanced Field Course.*

Prerequisites: Geology 290 or completion of junior year of course in Geological Engineering or junior year of College of Liberal Arts with major in geology.

An intensive study of a limited area involving methods of detailed geologic naming, training in stratigraphy, problems of structural geology. The field for 1929 will be announced later.

GERMAN

131. *Beginners' German.* (First Term.)

Grammar, reading, conversation.

132-3. *Continuation of German 131.* (Second Term.)

Two hours a day.

231. *Composition and Reading.* (First Term.)

Pre-requisite: German 131-2-3, or two years of high school German.

232-3. *Continuation of German 231.* (Second Term.)

Two hours a day.

GOVERNMENT

131. *American Government.* (Both Terms.)

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.

For freshmen and sophomores. Juniors and Seniors should take 331, 332 or get reduced credit.

132. *American Government.* (Second Term.)

A continuation of Government 131.

133. *American Government.* (Both Terms.)

A continuation of Government 131-2.

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.

335. *American Political Parties.* (First Term.)

Prerequisite: Government 131-2-3.

336. *American Political Parties.* (Second Term.)

A continuation of Government 335.

339. *World Politics.* (Second Term.)

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 principle of international conduct.

531. *Research.* (First Term.)

Intended for graduate students. Registration may be made only upon the approval of the head of the department.

532. *Research.* (Second Term.)

A continuation of Government 531.

HISTORY

131. *History of Civilization.* (Both Terms.)

This is a survey or orientation course, basic for work in social science and prerequisite to other courses in history. Ancient civilization is considered.

132. *History of Civilization.* (Both Terms.)

This is a continuation of 131. Medieval civilization is considered.

133. *History of Civilization.* (Both Terms.)

This is a continuation of 132. Modern civilization is the basis of this course.

231. *History of the United States.* (Second Term.)

This is the first term of a survey course in American History. The period before 1789 is considered.

232. *History of the United States.* (Second Term.)

This is the second term of a survey course in American History. The period from 1789 to 1865 is considered.

233. *History of the United States.* (First Term.)

This is the third term of a survey course in American History. The period since 1865 is considered.

235. *England and the British Empire—1485-1815.* (Second Term.)

The Tudors and the Reformation, the Stuarts and Parliament. Growth of the Empire, and the Industrial Revolution.

331. *History of Greece.* (Second Term.)

Economic, political, and social development of the Grecian city-states from the earliest times through the conquest by Rome, with special emphasis on the Periclean Age and Greek civilization.

434. *The American Revolution.* (First Term.)

A detailed study of the separation from England. The causes of the Revolution, the French Alliance, Loyalists, Finances, and the Peace Treaty are considered at length.

435. *Formation of the Constitution.* (First Term.)

The first state constitutions, failure of the Confederation, campaign for a stronger government, and the Federal Convention of 1787.

436. *The Federalist System.* (Second Term.)

Adoption of the Constitution of the United States, organization of the government under the Federalists, and the administrations of Washington and Adams.

438. *The United States—1817-1837.* (First Term.)

The development of nationalism. The Monroe Doctrine and Jacksonian Democracy.

5316. *The United States and Latin-America Since 1820.* (First Term.)

Origin and application of the Monroe Doctrine, Latin-American resentment at the expansion and imperialistic tendencies of the United States, and proposed substitutes for the Monroe Doctrine.

5317. *Texas Frontier Problems Since 1846.* (First Term.)

Frontier defense, the buffalo hide industry, the cattle kingdom, immigration and settlement, the advance of agriculture.

life and amusements, railroad building, frontier journalism, and the rise of sectionalism.

5318. *Indian Cultures of the Southwest.* (Second Term.)

The prehistoric and historic cultures of the Plains and Pueblo tribes of the Southwest; their customs, religions, governmental organization, architecture, industries, social life, etc.

LATIN

101-2. *Elementary Latin.* (First Term.)

A course for students who have had no Latin. Useful for teachers or others wishing to review the subject matter of high school Latin. Students of law and medicine will find the course especially adapted to their needs.

103. *Elementary Latin.*

This course will not be offered in the second term but may be completed by correspondence, and when completed satisfies the entrance requirements in foreign language.

Two hours a day.

MATHEMATICS

131. *College Algebra.* (Both Terms.)

Prerequisite: Two years of high school algebra and one year of plain geometry.

Quadratics, complex numbers, graphs, progressions, the binomial formula, theory of exponents, and logarithms.

132. *Plane Trigonometry.* (Both Terms.)

Prerequisite: Two years of high school algebra and one of plane geometry.

A beginners' course in trigonometry.

133. *Introduction to Analytic Geometry.* (Both Terms.)

Prerequisite: Mathematics 132.

A beginners' course covering the properties of the graph, the straight line and the circle.

230. *The Teaching of Arithmetic.* (First Term.)

Prerequisite: Mathematics 131 or its equivalent.

Designed for teachers in the first seven grades. Consideration in detail of the best ways and means of meeting the various problems as they arise from grade to grade.

231. *Analytical Geometry.* (Second Term.)

Prerequisite: Mathematics 133.

Conic sections, tangents and normals, higher plane curves and polar coordinates.

331. *Differential Calculus.* (First Term.)

Prerequisite: Completion of or registration for Mathematics 231 or its equivalent.

This course embraces the elements of differential calculus.

332. *Differential Calculus.* (Second Term.)

Prerequisite: Mathematics 331.

A continuation of Mathematics 331.

333. *Integral Calculus.* (Second Term.)

Prerequisite: Mathematics 331.

334. *The Teaching of Algebra.* (First Term.)

Prerequisite: Mathematics 131 or its equivalent.

Aims to present the best modern practices in the teaching of algebra. Intended for teachers in four-year high schools.

335. *The Teaching of Geometry.* (Second Term.)

Prerequisite: Mathematics 131-2-3.

Presupposes a knowledge of the subject matter of elementary geometry, but seeks to establish principles for the organization of that knowledge, for the selection of illustrative material, and for the attack upon original exercises.

337. *Elementary Theory of Equations.* (First Term.)

Prerequisite: Mathematics 331-2-3.

338. *Elementary Theory of Equations.* (Second Term.)

Prerequisite: Mathematics 337.

339. *Theory of Equations and Determinants.* (First Term.)

Prerequisite: Mathematics 331-2-3.

Properties of an algebraic equation in one unknown; systems of simultaneous equations; a system of linear equations and determinants.

431. *Advanced Calculus.* (First Term.)

Prerequisite: Mathematics 331-2-3.

432. *Advanced Calculus.* (Second Term.)

Prerequisite: Mathematics 431.

ENGINEERING MATHEMATICS

Certain courses in Liberal Arts mathematics correspond so closely to those in Engineering mathematics that they are taught in the same classes in the summer session. It will be less confusing, however, if engineering students are registered for the appropriate course in engineering mathematics.

1311. *First Term College Algebra*. The same as 131. (First Term.)
1310. *Trigonometry*. The same as 132. (First Term.)
1313. *Introduction to Analytic Geometry*. (First Course.)
The same as 133. (First Term.)
2321. *Analytical Geometry*. (Mathematics 1313 continued.)
The same as 231. (Second Term.)
2322. *Elementary Differential Calculus*. The same as 331.
(First Term.)
2323. *Integral Calculus*. The same as 333. (Second Term.)
3331. *Differential Calculus*. (Mathematics 2322 continued.)
The same as 332. (Second Term.)

MUSIC

130. *Public School Music, Primary Methods*. (First Term.)
134. *Elementary Music—Part 1*. (First Term.)
135. *Elementary Music—Part 2*. (Both Terms.)
136. *Elementary Music—Part 3*. (Second Term.)
137. *Music History and Appreciation—Part 1*. (First Term.)
138. *Music History and Appreciation—Part 2*. (Second Term.)
230. *Public School Music, Intermediate Methods*. (Second Term.)

In general, part numbers show continuous courses, the previous numbers being prerequisite. Students registering for music courses should see the head of the department before being scheduled. For Public School Music courses, a knowledge of notation and rhythms is essential, and eartraining should be carried simultaneously, if not already taken.

Piano, Voice, Violin and Organ lessons are being offered during the summer. For terms, etc., see general catalogue, or write to the Department of Music.

PHILOSOPHY AND SOCIOLOGY

231. *Introduction to Philosophy.* (First Term.)
430. *Present Day Systems of Philosophy.* (First Term.)
A seminar course.
333. *Urban Problems.* (Second Term.)
434. *Modern Social Prophets.* (First Term.)
435. *Modern Social Prophets.* (Second Term.)

PHYSICAL EDUCATION FOR MEN

For the benefit of men who are coaching or who expect to coach, three courses will be given in the first term of the Summer session, carrying full college credit. These courses are not designated for players, but are planned specifically with coaching in mind.

431. *Coaching.* (First Term.)

Football theory and practice. Three lectures and two laboratory periods a week.

432. *Coaching.* (First Term.)

Basketball theory and practice. Three lectures and two laboratory periods a week.

433. *Coaching.* (First Term.)

Track and Field theory and practice, with special training on prevention and care of injuries. Three lectures and two laboratory periods a week.

101. *Physical Training.* (First Term.)

This course will satisfy one term of the physical training requirement for graduation.

PHYSICAL EDUCATION FOR WOMEN

101. *General Gymnastics.*

Folk dancing, tumbling, calisthenics and marching.

2011. *Tennis.*

Theory and Practice of Tennis. One hour each day.

Prerequisite: Physical Education 101.

2012. *Horseback Riding.*

For beginners in riding.

Prerequisite: Physical Education 101.

2013. *Swimming and Archery.*

For beginners. The various strokes; methods of floating, diving, etc. Practical work in archery. Swimming M. W. F. Archery T. T.

Prerequisite: Physical Education 101.

231. *Plays and Games.*

Suitable for playgrounds, elementary and secondary schools; ranging from the simplest primary school game to organized team games, such as volley ball, basketball, etc.

PHYSICS

141-2-3. *General Physics.* Three lectures and recitations, one laboratory period.

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.* Three class hours, one laboratory period.

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.

This course may be taken also by students of Agriculture and Home Economics.

This course may be taken also by students of Agriculture, and also by students in Home Economics.

233. *The Teaching of Physics.*

Strongly recommended to all students who expect to teach physics. Will count as credit in Education, as well as in Physics.

241-2 or 242-3. *Sophomore Engineering Physics.* Three class hours, one laboratory period.

Prerequisite: An elementary course in general college physics and freshman mathematics.

324-5-6. *Problems in Physics*. Two 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.

No laboratory fee required.

SPANISH

131-2. *Beginners' Spanish*. (First Term.)

Grammar, reading, and conversation. Two hours a day.

133. *Beginners' Spanish*. (Second Term.)

A Continuation of Spanish 131-2.

231. *Grammar, Composition, Reading, and Conversation*. (First Term.)

Prerequisite: Spanish 131-2-3, or two years of high school Spanish. A student who takes Spanish 231 should take Spanish 232 also.

232. *Grammar, Composition, Reading, and Conversation*. (First Term.)

A Continuation of Spanish 231.

233. *Grammar, Composition, Reading, and Conversation*. (Second Term.)

A Continuation of Spanish 231-2.

331. *Contemporary Literature*. (First Term.)

Prerequisite: Spanish 131-2-3 and 231-2-3, or three or four years of high school Spanish.

Reading of representative novels and dramas of the Nineteenth Century. Collateral reading and composition based on readings.

332. *Contemporary Literature*. (First Term.)

A Continuation of Spanish 331.

333. *Contemporary Literature*. (Both Terms.)

A Continuation of Spanish 331-2.

531. *Modern Drama*.

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

A study of the drama of the Nineteenth and early Twentieth Centuries. Lectures, readings, discussions, reports.

532. *Modern Drama.*

A Continuation of Spanish 531.

533. *Modern Drama.* (Second Term.)

A Continuation of Spanish 532.

634. *Teachers' Course in Methods of Teaching Spanish.* (First Term.)

Prerequisite: Spanish 331-2-3 and one course in Education.

SPEECH

031. *Technique of Dramatic Art.*

A study of stage technique, production, and makeup; a study of the principles of dramatic interpretation and characterization. Recommended for students planning to teach in high schools.

032. *Technique of Dramatic Art.* (Second Term.)

A continuation of 031.

131. *Principles of Speech.*

A course in general speech education to give practical training in public speaking. The foundation course in delivery.

132. *Principles of Speech.*

A continuation of 131.

Prerequisite: Speech 131.

334. *Phonetics.*

Phonetics and its application to speech correction.

335. *Phonetics.*

A continuation of 334.

ENGINEERING COURSES

The subjects listed below under the various Engineering Departments are those for which it appears most likely that there will be a sufficient demand to justify their being offered. However, any other engineering subject may be offered provided there is sufficient demand and an instructor available. Any subject listed may not be taught if the demand does not justify it.

Any student desiring to study any engineering subject during the summer sessions should file such information with the dean, in order that the demand for the different courses may be known.

CIVIL ENGINEERING

230. *Elementary Surveying.* Two lectures, 12 hours laboratory for six weeks.

Prerequisite: Mathematics 1310.

The use of the compass, transit, tape, and level.

Fee: \$1.00.

Laboratory deposit: \$2.00.

333. *Applied Mechanics.* Class six hours.

Prerequisite: Mathematics 2323.

The study and application of the principles of statics. The study of 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.

ELECTRICAL ENGINEERING

231. *Principles of Electrical Engineering.* Class 6 hours a week for 6 weeks.

Required of all students of Electrical Engineering.

Prerequisite: Physics 242; Mathematics 2322.

A course of recitations and problems on the fundamental principles of the electric, magnetic and dielectric circuits.

334. *Elements of Electrical Engineering.* Class 6 hours.

Prerequisite: Physics 243; Mathematics 2323.

An elementary course of recitations and problems dealing with the theory and principles of electrical circuits and machinery for students not registered in Electrical Engineering.

ENGINEERING DRAWING

- 121, 122, 123. *Engineering Drawing.* 12 hours laboratory a week per course for 6 weeks.

Prerequisite: Solid geometry.

Approved drawing equipment required. Cost about \$25.

A course in the essentials of drafting, including the use of instruments, lettering, orthographic projections, sections, intersections, developments, isometric and oblique drawing, and elementary working drawings.

124. *Agricultural Drawing*. 12 hours laboratory a week.

Prerequisite: None.

Drawing equipment required.

231. *Descriptive Geometry*. Six two-hour periods a week for lecture and laboratory.

A course in the theory of engineering drawing which provides training in exact thinking. It includes the point, line and plane problems, tangent planes, intersections and developments, and curved and warped surfaces.

MECHANICAL ENGINEERING

211, 212. Six hours' laboratory a week in each course for six weeks.

Practice in woodworking, to include bench and lathe work and the use of other woodworking machines and tools used in patternmaking. Kinds of wood used, glue joints, shrinkage and draft.

Fee: \$1.50 a course.

221. *Mechanical Engineering Problems*. Class 4 hours a week for 6 weeks' term.

Required of all electrical, mechanical, and textile engineering students.

Prerequisite: Physics 144 and 145.

Application of physics and mathematics to the solution of simple problems in the fields of mechanism, power engineering and heat engineering. Slide rule practice.

311, 312, 313. *Machine Shop*. Laboratory 6 hours a week for six weeks term.

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, planer and shaper, milling and grinding machines. Gear calculations and manufacture. Automatic machine operations.

Fee: \$1.50 a course.

AGRICULTURAL COURSES

AGRICULTURAL EDUCATION

331 *Rural Education*. Same as Education 230. (Second Term.)

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.

AGRONOMY

131. The Fundamentals of Crop Production. (First Term.)

Four class hours, six 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.

331. Forage Crops. (First Term.)

Four class hours, six laboratory hours.

Prerequisite: Agronomy 131 and one 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.

411-2. Agronomy Seminar. (Throughout the Summer.)

Two class hours, or four discussion hours.

Assigned problems in reading in Agronomy with informal discussions, reports, and papers.

435. Dry Land Farming. (Second Term.)

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. (Second Term.)

Four class hours, six 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.

ANIMAL HUSBANDRY

121. *Dairy and Dual-Purpose Cattle.* (Second Term.)

Two class hours, six 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.* (First Term.)

Four class hours, six 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.* (First Term.)

Four class hours, six laboratory hours.

Brief survey of hog and horse industries. Types and classifications. 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.

341. *Animal Nutrition.* (First Term.)

Six class hours, six laboratory hours.

Prerequisite: Chemistry 332.

Chemical composition of plant and animal body. Digestion and metabolism. Digestibility, energy and manurial value of feeds. Feed requirements and calculating rations for maintenance, growth, fattening, milk and wool production, and work. Study of various feeding stuffs. Practice in feeding of laboratory animals.

Fee: \$1.50.

431. *Beef Production.* (Second Term.)

Four class hours, six 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.

433. *Sheep Production.* (Second Term.)

Four class hours, six 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.

DAIRY MANUFACTURES

131. *Principles of Dairy Manufacturing.* (First Term.)

Four class hours, six 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 a term.

331-2. *Market Milk.* (Throughout the Summer.)

Four class hours, six 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: \$1.50 a term.

433. *Butter Making.* (Second Term.)

Four class hours, 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.

Fee: \$1.50.

434. *Butter Making.* (Second Term.)

Four class hours, six laboratory hours.

Prerequisite: Dairy Manufactures 433.

Actual plant practice in the manufacture of butter, cream grading, neutralization, starters.

Fee: \$1.50.

HORTICULTURE

131. *Home Gardening.* (First Term.)

Four class hours, six 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.* (First Term.)

Six class hours, six laboratory hours.

Prerequisite: Botany 131-2-3.

A study of plant propagation with 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.* (First Term.)

Six 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.

HOME ECONOMICS COURSES

CLOTHING

131. *Elementary Course in Clothing Construction.* (First Term.)

Principles of construction applied to cotton, rayon and linen garments.

Fee: \$1.50.

132. *Principles of Dress Selection.* (Second Term.)

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.

Fee: \$1.50.

131. *Elementary Textiles.* (Both terms.)

Choice, cost and care of fabrics for clothing and home furnishing.

Fee: \$1.00.

135. *Craft Work in Textiles.* (First Term.)

Prerequisite: Clothing 133 and Applied Arts 131.

A course in constructing hand woven materials such as rugs, scarfs, etc., basketry, dyeing, embroidery work.

Fee: \$1.50.

221. *Dress Appreciation.* (Second Term.)

Prerequisite: Sophomore standing.

Especially designed for Liberal Arts and Foods Majors of Sophomore standing. Principles of good taste in the selection of clothing.

231-2. *Elementary Dress Design.* (Second Term.)

Prerequisite: Applied Art 231, Clothing 131-2-3.

Problems in fitting and adapting patterns. Comparisons with standard commercial patterns. Development of freehand drafts and draping. Emphasis on originality. Garment construction.

Fee: \$3.00.

332. *Children's Clothing.* (First term.)

Prerequisite: Clothing 131-2-3, Applied Art 131 and 231.

Selection, care, designing and construction of children's and infants' clothing.

Fee: \$1.50.

DEPARTMENT OF FOODS AND NUTRITION

131-2. *Elementary Food Preparation.* (Both terms.)

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.

Fee: \$3.00.

133. *Elementary Nutrition.* (First Term.)

The elementary facts of nutrition in relation to the selection of foods for the college woman.

Fee: \$1.00.

231-2. Meal Planning and Serving. (First Term.)

Prerequisite: Foods 131-2-3.

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.

APPLIED ART

131. Elementary Design. (First Term.)

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.

231. Costume Design. (First Term.)

Prerequisite: Applied Art 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.

431. Interior Decoration. (First term.)

Prerequisite: Applied Art 131 and Junior standing.

Study of house plans and furnishing for the home. Period decoration and practical selection and arrangement of home equipment.

Fee: \$1.50.

HOME ECONOMICS EDUCATION

431. Problems in Home Economics Education. (First term.)

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.

GENERAL HOME ECONOMICS

331. *Home Nursing.* (Second Term.)

Prerequisite: Sophomore standing or above.

A study of the prevention and care of illness which may be taken care of in the home, including first aid treatment. The preparation and serving of food for the sick. Nursing demonstrations by a registered nurse from a Lubbock hospital.

No fee.

461. *Residence in Home Management House.* (Second Term.)

Prerequisite: Home Management 331-2, 18 hours of Foods.

The application of the principles of home management. Students will live in the Home Management House under supervision for a period of six weeks.

Students wishing to schedule this course should make application to the Dean of Home Economics as early as possible. It will be offered provided there is sufficient demand.

COTTON SCHOOL

The Third Annual Cotton School of the Texas Technological College will open Monday, July 15, 1929, and close, Saturday, August 10, 1929.

The Texas Technological College Cotton School is not a direct part of the summer session. There are no scholastic entrance requirements necessary for enrollment. The course is open to any one who feels that he can benefit by the work offered. The course will approximately parallel that of the second term of the summer school in time.

All classes will be conducted in the Textile Engineering building of the College, where ideal facilities exist for carrying on this work. The complete equipment of the cotton textile department of the College is housed in this building and is open during school hours for the inspection and study of all Cotton School students. The sample rooms, which will be larger this year than last, are spacious, and afford ample light from a large expanse of glass directly facing the north, this being the ideal cotton classing light.

The courses of instruction are designed to cover all of the principle points and fundamentals of the cotton business. These courses include grading white cottons; grading colored cottons, stapling cottons; marketing, street buying and selling; F.O.B.:

buying and selling; list buying and selling; and the relation between interior buying and selling and export buying and selling; cotton office practice, covering all of the basic principles of the book work, and clerical detail, such as the making of invoices, figuring grade and staple differences and the opening and closing of a set of books especially designed for the cotton business.

Practical instruction will be given daily and this will be accompanied by lectures on the various phases of the cotton business as the work of the class progresses. Instruction will also be given, where desired, in the correspondence pertaining to the cotton business, as well as the sending and receiving of telegrams in code and otherwise.

It is the desire of those in charge of the Summer Cotton School so to broaden the scope of the work as to make it attractive and helpful, not only to prospective cotton men, but to ginnermen, farmers and general merchants, also. Ginnermen and merchants find it necessary to buy cotton at times, and the cotton farmer is always a potential seller of cotton; so it is the desire of the College authorities that this Summer Cotton School may be of interest and benefit to all these individuals. To this end your careful investigation of this course is invited.

This Summer Cotton School will be under the direction of the Department of Textile Engineering of the College, and the instructors will be competent, practical men of long experience in the cotton business and its allied lines. Assistance in addition to the staff will be available, and it is planned to secure speakers of prominence to address the classes from time to time.

Relative to living expenses, it may be said that splendid meals may be had for \$25.00 a month. Furnished rooms near the College range around \$20.00 a month.

The elevation of Lubbock is 3,251 feet, and the mean temperature for the summer is $77\frac{1}{2}$ degrees F. These make this a most delightful place in which to spend a part of one's vacation or summer.

The charges, including all fees, for the courses total \$25.00, as follows:

Matriculation	\$ 5.00
Grading White Cotton	4.00
Grading Colored Cotton	4.00
Stapling	4.00
Marketing	4.00
Cotton Office Practice	4.00
 Total	 \$25.00

For additional information communicate with the Department of Textile Engineering, Texas Technological College, Lubbock, Texas.

O COLLEGE MOTHER, BEAUTIFUL

(College Hymn of Texas Technological College sung to the music of "America the Beautiful.")

1

O College Mother, Beautiful,
Our hearts go out to thee.
We raise our voices in a prayer
For thy prosperity.
O College Mother, Beautiful,
Long be thy life and blest,
May God crown all thy nights and days
With love and joy and rest!

2

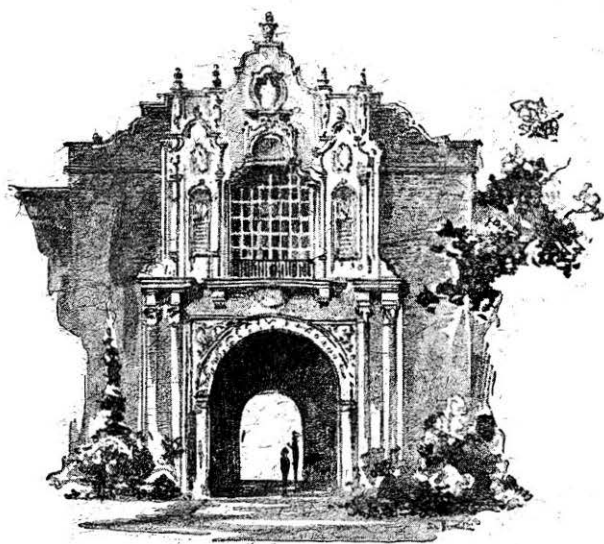
O College Mother, Beautiful,
Thy skies of vaulted blue
Cail to thy sons and daughters all
Forever to be true.
True to the State they love so well,
The land that gave them birth;
True to their glorious heritage,
The fairest land on earth!

3

O College Mother, Beautiful,
Thy arches and thy towers
Thy halls and roofs and corridors
Forevermore are ours.
We love thy fields of cotton white,
Thy grasses and thy grains,
Thy canyons and thy terraces,
Thy fertile upland plains.

4

O College Mother, Beautiful,
We love thy words of truth,
Deep graven in thy brick and stone
To guide the ways of youth.
Long may thy fingers point the way
That earnest youth should tread,
And may the blessings of the free
Be ever on thy head.



ENTRANCE OF TEXTILE ENGINEERING BUILDING