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OF THE
TEXAS TECHNOLOGICAL COLLEGE

LUBBOCK, TEXAS
PUBLISHED FOUR TIMES A YEAR

VOL. II

JANUARY, 1926

No. 1



FIRST ANNUAL CATALOG NUMBER
1925-1926

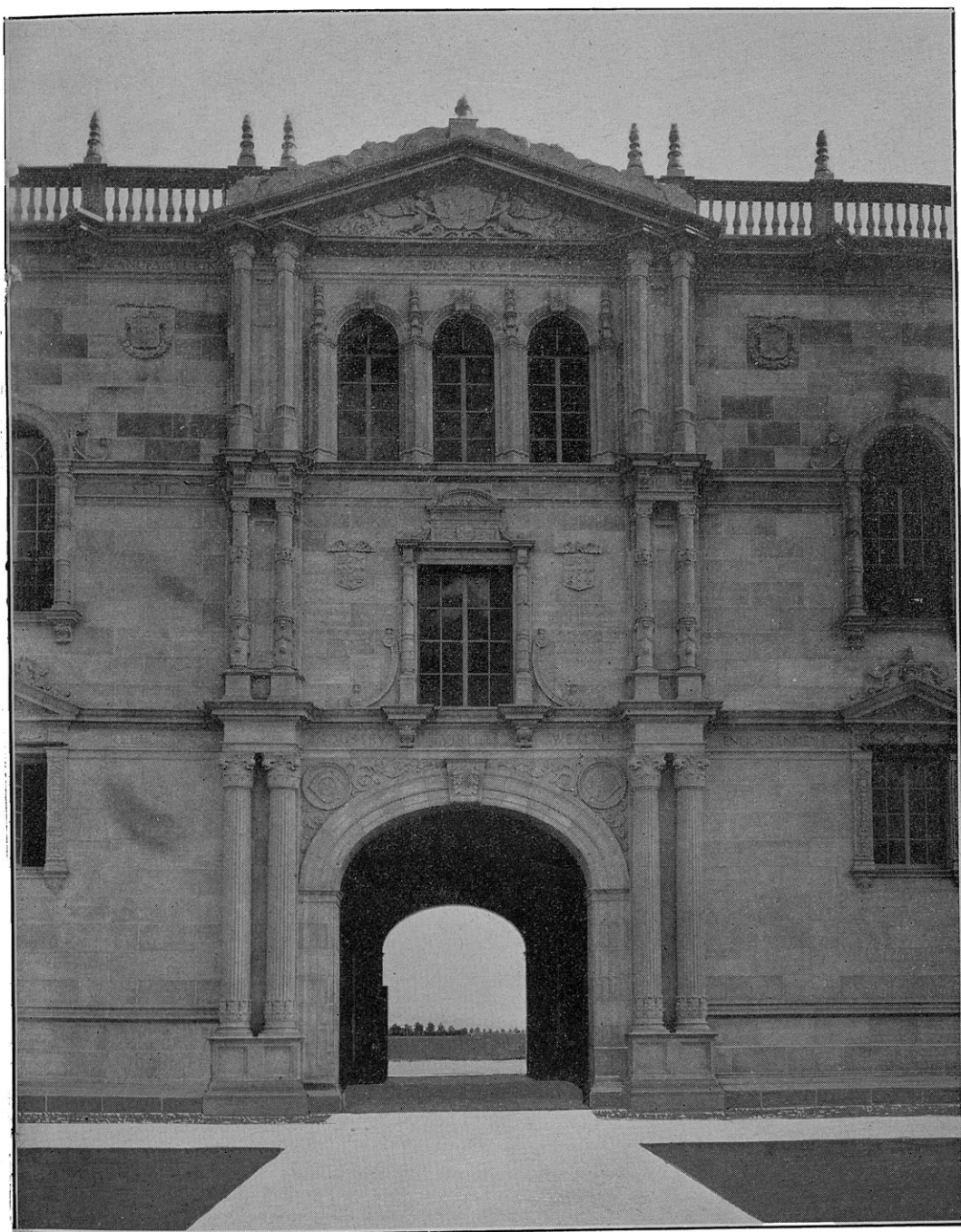
WITH
ANNOUNCEMENTS FOR 1926-1927

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LUBBOCK, TEXAS
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PREFATORY STATEMENT.

The first annual number of the catalog of the Texas Technological College, with a somewhat detailed outline of courses, is herewith presented. The first, or beginning of any worth while undertaking is always interesting. This has been especially true of the beginning of this College. Problems have presented themselves to be sure, but the cordial unstinted cooperation of the faculty and student body has made the problems even more interesting.

That the Texas Technological College may in a large measure fulfil its mission of service to the young men and young women who are seeking and will seek admission to its classrooms is the ardent wish of its Board of Directors, its President, its Faculty members, its student body and of all the splendid men and women who labored unceasingly to make its existence possible, and who will, we sincerely believe, continue to labor to make possible the fulfilment of its mission.



DETAIL OF ENTRANCE TO THE ADMINISTRATION BUILDING

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CALENDAR, 1926

JANUARY							FEBRUARY							MARCH							APRIL							
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10	11	12	13	14	15	16	14	15	16	17	18	19	20	21	14	15	16	17	18	19	20	11	12	13	14	15	16	17
17	18	19	20	21	22	23	21	22	23	24	25	26	27	28	21	22	23	24	25	26	27	18	19	20	21	22	23	24
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12	13	14	15	16	17	18	10	11	12	13	14	15	16	14	15	16	17	18	19	20	12	13	14	15	16	17	18
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CALENDAR, 1927

JANUARY							FEBRUARY							MARCH							APRIL						
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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
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25	26	27	28	29	30		23	24	25	26	27	28	29	27	28	29	30				25	26	27	28	29	30	31

COLLEGE CALENDAR.

1926.

January 4. Winter term begins.
February 22. A holiday.
March 2, Tuesday. Texas Independence Day.
March 24, Wednesday. Winter term ends.
March 25, Thursday. Spring term begins.
June 11, Friday. Spring term ends.

SUMMER SESSION.

June 11, Friday. Summer School begins.
July 22, Thursday. Summer School closes.

SECOND ANNUAL SESSION.

September 16-18, Thursday-Saturday. Entrance examinations.
September 20-22, Monday-Wednesday. Registration.
September 23, Thursday. Fall term classes begin, 8 a. m.
October 2, Saturday. Last day for fall registration for full work.
November 10, Wednesday. Mid-term reports due in Registrar's office.
November 11, Thursday. Armistice Day, a holiday.
November 25, Thursday. Thanksgiving, a holiday.
December 16-21, Thursday-Tuesday. Fall term examinations.
December 22, Wednesday. Christmas recess begins.
December 23, Thursday. Fall term grades due in Registrar's office.

1927.

January 3, Monday. Registration for Winter term.
January 4, Tuesday. Recitations begin, 8 a. m.
January 10, Monday. Last day for Winter term registration for full work.
February 9, Wednesday. Mid-term reports due in Registrar's office.
February 22, Tuesday. A holiday.
March 2, Wednesday. Texas Independence Day.
March 15-19, Tuesday-Saturday. Examinations for Winter term.
March 21, Monday. Spring term begins, 8 a. m.
April 21, Thursday. San Jacinto Day, a holiday.
April 27, Wednesday. Mid-term reports due in Registrar's office.
May 31-June 4, Tuesday-Saturday. Spring term examinations.
June 5, Sunday. Commencement Sunday.
June 6, Monday. College exercises.
June 7, Tuesday. Commencement Day.
June 8, Wednesday. Summer School begins.

BOARD OF DIRECTORS.

Terms Expire 1927.

AMON G. CARTER, Chairman	Fort Worth
R. A. UNDERWOOD, Vice-Chairman	Plainview
MRS. CHAS. DEGROFF	El Paso

Terms Expire 1929.

C. W. MEADOWS	Waco
MRS. F. N. DRANE	Corsicana
JOHN W. CARPENTER	Dallas

Terms Expire 1931.

CLIFFORD B. JONES, Treasurer	Spur
H. T. KIMBRO	Lubbock
MOSE NEWMAN	Sweetwater

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, 101 Administration Building.

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

Office, 101 Home Economics Building.

WILLIAM J. MILLER, S. M. E. E., *Dean of the School of Engineering.*

Office, 102 Textile Engineering Building.

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

Office, 201 Home Economics Building.

MARY W. DOAK, B. A., *Dean of Women.*

Office, 102 Administration Building.

RICHARD M. CHITWOOD, *College Secretary and Business Manager.*

Office, 105 Administration Building.

EBEN L. DOHONEY, B. Litt., *Registrar.*

Office, 210 Administration Building.

ELIZABETH H. WEST, M. A., *Librarian.*

Office, Library, Administration Building.

OFFICERS OF INSTRUCTION.

PAUL WHITFIELD HORN, *President.*

M. A., Central College, 1888; LL. D., 1917.

PROFESSORS AND ASSOCIATE PROFESSORS.

LEWIS DARWIN AMES, *Professor of Mathematics.*

B. A., Harvard, 1901; M. A., 1902; Ph. D., 1904.

LALLA ROOKH BOONE, *Associate Professor of History.*

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

EDMOND WEYMON CAMP, *Professor of Textile Engineering.*

B. S., Georgia School of Technology, 1901.

CHARLES DUDLEY EAVES, *Professor of History.*

B. A., Texas, 1916; M. A., Chicago, 1922.

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

B. A., Oxford College, 1890; M. A., Texas, 1924.

DONALD ALEXANDER FLANDERS, *Professor of Mathematics.*

B. A., Haverford College, 1922.

GUS L. FORD, *Professor of History.*

M. A., Southern Methodist University, 1921.

EDWING YOUNG FREELAND, *Professor of Physical Education and Head Coach.*

B. A., Vanderbilt, 1912.

FREEMAN DENT GALBRAITH, *Associate Professor of Chemistry.*

B. S., Valparaiso, 1910; M. A., Texas, 1923.

WILLIAM BRYAN GATES, *Associate Professor of English.*

B. S., Millsaps College, 1918; M. A., Vanderbilt, 1921.

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

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

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

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

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

B. A., Randolph-Macon, 1896; M. A., Chicago, 1908; Ph. D., 1909; B. D., Vanderbilt, 1899; D. D., Kentucky Wesleyan, 1913.

RICHARD CLARENCE HARRISON, *Professor of English; Head of Department.*

B. A., Texas, 1912; M. A., 1917; M. A., Harvard, 1922.

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

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

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

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

JONNIE HEMPHILL MCCRERY, *Professor of Foods and Nutrition.*

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

FLORA POWELL MCGEE, *Associate Professor of English.*

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

CHARLES HAROLD MAHONEY, *Associate Professor of Horticulture.*

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

CLARENCE SIMPSON MAST, *Professor of Physics.*

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

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

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

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

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

JAMES HAROLD MURDOUGH, *Associate Professor of Civil Engineering.*

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

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

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

LUTHER APPEL PFLUEGER, *Professor of French and German; Head of Department.*

B. A., Muhlenberg College, 1906; M. A., Indiana, 1913; Ph. D., Wisconsin, 1923.

RUTH PIRTLE, *Professor of English and of Public Speaking.*

Student, Hickman School of Speech Arts; Lyceum Arts Conservatory; Colorado; California.

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

M. A., Texas, 1921.

WILLIAM RAY, *Professor of Chemistry.*

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

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

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

EDGAR GREER SHELTON, *Associate Professor of Architecture and Drawing.*

B. S. in Architecture, Texas, 1921.

GEORGE SMALLWOOD, *Professor of English.*

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

WENZELL LOUIS STANGEL, *Professor of Animal Husbandry.*

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

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

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

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

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

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

F. A. G. O., 1914.

FRANCES WHATLEY, *Associate Professor of Spanish.*

M. A., Texas, 1925.

WILLIAM MARVIN WHYBURN, *Associate Professor of Mathematics.*

M. A., Texas, 1923.

ADJUNCT PROFESSORS, INSTRUCTORS AND ASSISTANTS.

ROBERT DOUGLAS CAMPBELL, *Instructor in Drawing.*

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

MRS. EUNICE JOINER GATES, *Instructor in English.*

M. A., Southwestern, 1923.

JOHNNYE GILKERSON, *Instructor in Physical Education for Women.*

B. A., Texas, 1925.

GRAILY HEWITT HIGGINBOTHAM, *Assistant Coach.*

HARRY HILL, *Adjunct Professor of Physics.*

M. A., West Virginia, 1924.

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

DOROTHY MCFARLANE, *Adjunct Professor of Clothing and Director of Cafeteria.*

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

ELIZABETH THATCHER STAFFORD, *Adjunct Professor of Mathematics.*

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

MRS. RUTH B. STUDHALTER, *Instructor in Biology.*

B. A., Missouri, 1911; M. A., Washington, 1917.

INSTRUCTORS IN SPECIAL DEPARTMENTS.

MARGARET JOHNSON HUFF, *Piano.*

B. M., American Conservatory.

ALBERT G. PFAFF, *Vocal Music.*

Pupil of Horatio Parker; Wm. H. Lee; Theodore Van Yorx; Ross David; Oscar Seagle.

RUTH PIRTLE, *Expression.*

WILLIAM RICHARD WAGHORNE, *Band, Orchestra, Glee Clubs.*

F. I. DAHLBERG, B. S., *Superintendent of Farms.*

FACULTY COMMITTEES.

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

1. On daily schedule: Deans Gordon, Leidigh, Miller, Weeks.
2. On registration: Dohoney, Read, Gordon.
3. On boarding houses: Smallwood, Ray, Doak.
4. On formal opening: Jackson, Mast, Waghorne.
5. On student help: Galbraith, Read, Gilkerson.
6. On athletics: Stangel, Jackson, Michie.
7. On extra-curricular activities: Granbery, Michie, West.
8. On social activities: Doak, Weeks, Gates.
9. On publicity: Harrison, Read, McGee.
10. On scholarship awards: Evans, George, Studhalter.
11. On religious life among students: Read, Eaves, Evans.
12. On system of grading: Leidigh, Harrison, Jackson.
13. On general catalog: Five deans, including dean of women.
14. On course of study, Liberal Arts: Dean Gordon and department heads.
15. On faculty advisors: Evans, George, McCrery.
16. On artists' course: Waghorne, Pirtle, Harrison.
17. On Summer School: Gordon, Evans, Granbery.

OFFICE AND OTHER ASSISTANTS

ALICE MARIE JENSEN, *Secretary to the President.*
MARGARET McNABB, *Secretary to the Dean of Liberal Arts.*
ALICE LUCILLE LETSCH, *Secretary to the Dean of Engineering.*
JANE MARGUERITE BENNETT, B. A., *Cashier.*
EVELYN KNIPP, B. S., *Clerk.*
MARIE GOOCH, *Stenographer.*
OPHELIA STEELE, *Postmistress.*

EUGENE JORDAN, *Stenographer.*
LAURA LATIMER, *Stenographer.*
LORENA MANSELL, *Stenographer.*
EDNA YOUNGE, *Stenographer.*
VIDA HINTON, *Stenographer.*
IRWIN COLEMAN, *Stenographer.*
JERVIS CUMMINS, *Clerk.*
DAYLE WALLACE, *Filing Clerk.*
MILTON B. CLAPP, *Bookroom Manager.*
EDWARD E. KRAL, *Bookroom Clerk.*
HOUSTON FREDERICK, *Phone Attendant.*
BILL POAGE, *Phone Attendant.*
J. I. PIPKIN, *Engineer.*
J. H. BENNETT, *Assistant Engineer.*
JOHN GOODLETT, *Watchman.*
C. E. REYNOLDS, *Night Watchman.*
R. L. TIDMORE, *Night Watchman.*
JOE L. BUNDRANT, *Groundman.*
HARVEY NEELY, *Assistant in the Library.*
MAYNARD M. NANCE, *Assistant in the Library.*
T. M. BINION, *Assistant in Chemistry Laboratory.*
E. W. CAMP, JR., *Assistant in Chemistry Laboratory.*
B. SMITH, *Assistant in Chemistry Laboratory.*
JAMES HALE, *Assistant in Chemistry Laboratory.*
G. K. TRAYLOR, *Assistant in Chemistry Laboratory.*
T. A. ROGERS, *Assistant in Physics Laboratory.*
WILLIAM TUCKER, *Assistant in Physics Laboratory.*
STERLING GERMANY, *Assistant in Physics Laboratory.*
TED SAMS, *Assistant in Physics Laboratory.*

TEXAS TECHNOLOGICAL COLLEGE

On October 1, 1925, Texas Technological College opened its doors for the first time to the enrollment of students. Before the close of the fall term, 925 young men and young women had been enrolled as students in the institution. Of this number 738 were entering college for the first time and 187 were transfers from other colleges. The men numbered 649 and the women 276. Some 220 Texas cities and towns were represented in the student body; from each of more than one hundred of these came one student only. Eight States besides Texas contributed to the enrollment. Of the fifteen state-supported colleges of Texas, the Texas Technological College ranked fifth in enrollment of students of collegiate standing by the close of the fall term. In January, 1926, there were 1015 students enrolled.

HISTORICAL.

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

SENATE BILL No. 103.

An Act to establish a State college in Texas, west of the ninety-eighth (98th) meridian and north of the twenty-ninth (29th) parallel, to be known as the Texas Technological College; providing for the location of such college; its government; the control of its finances; defining its leading objects and prescribing generally the nature and scope of instruction to be given; conferring upon the Board of Directors of said college the rights of eminent domain; making the necessary appropriation for the purchase of land, the location, establishing and maintenance of said college, and declaring an emergency.

Be it enacted by the Legislature of the State of Texas:

SECTION 1. There shall be established in this State a college for white students to be known as the Texas Technological College, said college to be located north of the twenty-ninth (29th) parallel, and west of the ninety-eighth (98th) meridian, and shall be a co-educational college giving thorough instruction in technology and textile engineering from which a student may reach the highest degree of education along the lines of manufacturing cotton, wool, leather and other raw materials produced in Texas, including all branches of textile engineering, the chemistry of materials, the technique of weaving, dyeing, tanning, and the doing of any and all other things necessary for the manufacturing of raw materials into finished products; and said college shall also have complete courses in the arts and sciences, physical, social, political, pure and applied, such as are taught in colleges of the first class leading to the degrees of Bachelor of Science, Bachelor of Arts, Bachelor of Literature, Bachelor of Technology and any and all other degrees given by colleges of the first

class; said college being designated to elevate their ideals, enrich the lives and increase the capacity of the people for democratic self-government and particularly to give instruction in technological, manufacturing, and agricultural pursuits and domestic husbandry and home economics so that the boys and girls of this State may attain their highest usefulness and greatest happiness and in so doing may prepare themselves for producing from the State its greatest possible wealth.

SEC. 2. The government, control and direction of the policies of said technological college shall be vested in a board of nine (9) directors to be appointed by the Governor who shall hold office for a period of six (6) years, said board of nine (9) directors to be so divided that the terms of three (3) directors shall expire every two years, and it shall be the duty of the Governor in making the appointment of the first board of directors, to indicate in his appointment the name of the director whose term shall expire in two (2) years, the name of the director whose term shall expire in four (4) years, and the name of the director whose term shall expire in six (6) years; all of said directors to hold their office until their successors are qualified, unless a removal is made by the Governor for inefficiency or inattention to their duties as members of such board.

The board of directors of the Texas Technological College shall provide a president therefor who shall devote his entire time to the executive management of said school and who shall be directly accountable to the board of directors for the conduct thereof.

SEC. 3. In addition to the courses provided in technology and textile engineering, the said Texas Technological College shall offer the usual college courses given in standard senior colleges of the first class and shall be empowered to confer appropriate degrees to be determined by the board of directors and shall offer four-year courses, two-year courses, or short-term courses in farm and ranch husbandry and economics and the chemistry of soils and the adaption of farm crops to the peculiar soil, climate and condition of that portion of the State in which the college is located, and such other courses and degrees as the board of directors may see fit to provide as a means of supplying the educational facilities necessary for this section of the State, and it shall be the duty of the board of directors to furnish such assistance to the faculty and students of said college as will enable them to do original research work and to apply the latest and most approved method of manufacturing and, in general, to afford the facilities of the college for the purpose of originating, developing, supporting and maintaining all of those agencies (physical, mental and moral) for the development of the physical, mental and moral welfare of the students who attend the college and for the further purpose of developing the material resources of the State to their highest point of value and usefulness by teaching the arts of commerce and manufacturing. All male students attending this college shall be required to receive such instruction in military science and tactics as the board of directors may prescribe which shall, at all times, comply in full with the requirements of the United States Government now given as a prerequisite to any aid now extended or hereafter to be extended by

the Government of the United States to State institutions of this character and all such white male students shall, during their attendance at such college, be subject to such military discipline and control as the board of directors may prescribe.

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

SEC. 5. The said locating board shall have authority to select approximately two thousand (2000) acres of land for the site of said college and agree with the owner or owners thereof upon the price to be paid therefor, which said agreement shall be reduced to writing and by the said locating board, signed and delivered to the board of directors herein provided for, who shall thereupon have full authority to contract for the purchase of said land for said purpose, and, upon the approval of the title thereto by the Attorney General of the State of Texas, to pay for said land and any improvements thereon in any sum not to exceed one hundred and fifty thousand (\$150,000) dollars.

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

Texas. The filing of this report with the Secretary of State shall legally constitute the establishing of the college.

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

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

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

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

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

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

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

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

LOCATION.

The College is located at Lubbock, a rapidly growing little city of approximately 15,000 inhabitants. The main line of the Santa Fe Railroad from Los Angeles to Houston passes through Lubbock and

a new line of the same system has just been completed from Crosbyton through Lubbock to Bledsoe. This gives the city ten passenger trains daily. Lubbock has six designated State highway outlets with eighteen automobile passenger stage lines, making the town very easy of access.

Lubbock has a progressive city school system with a scholastic enrollment of 4110 and 117 teachers. The high school has 37½ units of affiliation with the State Department of Education, and is a member of the Southern Association of Accredited Schools.

The elevation of Lubbock is 3251 feet, the mean temperature for winter is 40 degrees F., for summer 77.5 degrees F., for the entire year 53.8 degrees F.

There are three modern brick hospitals with over 230 bed capacity, each with a capable staff of physicians and specialists. There are also a number of religious denominations represented in this city, and the leading congregations all have new church buildings.

ORGANIZATION.

The College is at present organized into four distinct but closely cooperating schools, as follows: The School of Liberal Arts, the School of Agriculture, the School of Engineering, and the School of Home Economics. Each of these schools has its own dean, its course of study, its requirements for entrance and for graduation. A specific degree is given for graduation; for the School of Liberal Arts, the degree is B. A.; for the other schools it is B. S. with an indication of the special subject in which the degree is taken.

The four schools with their various departments are as follows:

The School of Liberal Arts.

Biology.	Latin.
Business Administration,	Mathematics.
Economics, and Sociology.	Music.
English.	Philosophy.
French.	Physical Education.
Geology.	Physics.
German.	Public Speaking.
Government.	Spanish.
History.	Zoology.

The School of Engineering.

Architecture.	Mechanical and
Civil Engineering.	Chemical Engineering.
Electrical Engineering.	Textile Engineering.
Geological Engineering.	

The School of Agriculture.

Agronomy.	Horticulture.
Animal Husbandry.	

The School of Home Economics.

Foods and Nutritions.	Clothing and Design.
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BUILDINGS AND GROUNDS.

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

Texas Technological College is now a reality. The high hopes and the firm endeavors of those far-seeing citizens of the Plains Country have been brought to the beginning of their fulfillment, with the enrollment of a first year's class in "Texas Tech." exceeding in numbers 900 students. It is indeed a most auspicious beginning, one which represents in the natural succession of four years' college enrollment a college community of great size and vigor springing almost at once, full grown, into the ranks of the greater schools of learning in our country.

It may be possible for me to portray a vision of the College in its entirety and as we hope it shall be in its gradual expansion to fill the needs of the student body, a constantly growing community. The building and courts of such a college gradually gather the association and the tradition rich with the history of Texas and rich in each successive generation with the achievements of the men and women who have gone forth from these buildings and courts to the activities of this State.

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

Flanking the Hall of Texas on either side will be the laboratories of science, chemistry and physics, connected in such a manner as to form the court closing the western end of the great central court, or yard, of the College. This court will be raised at a level some few feet higher than the great central court.

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

Halls for Women.

Home of the President.

The Library of the College.

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

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

The vision of the authorities of the College that it shall within a generation reach a number approximating 6000 students seems to be certain of fulfillment in view of its large enrollment, and for such a number have the assignments of space upon the campus for the different buildings and departments been made, with each department possible of even further development in later generations. What we see upon the campus now is but the beginning of a great institution, the reality of which now exists and its future lies in the hearts and minds of the active and progressive citizens of West Texas.

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

THE BIOLOGY LABORATORY.

The biology laboratory consists of a well-lighted north room on the third floor of the Administration Building. It is furnished with the necessary furniture, water, electricity, gas, and all of the items of equipment and supplies necessary for the various courses in botany, physiology and zoology.

CHEMISTRY LABORATORY.

One large laboratory is devoted to elementary inorganic chemistry, and is completely equipped with desks, lockers, gas, water, current, hoods, and all the apparatus and chemicals necessary for the course. A smaller laboratory has been provided for advanced courses. The Department of Chemistry has also a stock and preparation room, a storage room, and a cellar outside the building for certain chemicals.

GEOLOGY LABORATORY.

The geology department has a good collection of lecture room maps, consisting of geological maps, relief maps, etc., and a large collection of topographic maps and geologic folios. The lecture room is equipped with a daylight projection apparatus and the collection of lantern slides is being increased as rapidly as possible. For this purpose the department has a well equipped dark room, copying camera, microphotographic outfit and other necessary apparatus. A large collection of rocks, mineral specimens, and fossils is available for illustrative work in the various courses. As rapidly as possible both the working collections and museum collections are being increased both by purchase and collection. The laboratory is equipped with adequate material and apparatus for the conduct of the several laboratory courses. A collection of the best type of instruments used in geological surveys is available for instruction and use in field geology.

PHYSICS LABORATORY.

The physics laboratory on the first floor is 41x43 feet. It is equipped with direct and alternating current electricity, gas, water, and compressed air. There are twelve students' tables, each equipped with iron stands and supports, electricity and gas, and capable of accommodating four students each. There are balance tables; instructor's desk equipped with sink, water, gas, drawers, and compartments; wall sink and apparatus cases. The room is supplied with analytical balances, wall galvanometers, precision electrical laboratory clock for beating seconds; ballistic pendulum, compound pendulums, rotary inertia apparatus and seven-foot slide rules mounted on the walls. The stock room is well supplied with apparatus cases and with a good work bench. It has electricity, water, and a wall sink. The dark room is equipped with electricity, water, wall sink, and table with drawers. The lecture room is equipped with amphitheater seats. It has a large lecture table provided with water, gas, electricity, drawers, compartments and iron stands. On the back wall is mounted a galvanometer for throwing a beam of light above the blackboard. There is a long research table equipped with electricity. The tables, apparatus cases, cupboards, desks and sinks are all new and of the best material, costing \$10,000. The physics apparatus is all new and up to date.

THE LIBRARY.

The Library has acquired by gift and by purchase approximately 11,000 books and pamphlets.

This material comprises general and special encyclopedias, general literature, English and foreign texts, treatises on subjects taught in the College; back numbers of magazines, both general and technical, mostly unbound; a good run of Scribner's and the Century, bound; and the nucleus of a fair working collection of State and Federal documents.

The funds at the disposal of the Library are being expended with care, in the effort to build up as good a working collection as possible, for students and faculty.

On the periodical racks are about one hundred general and special magazines and eight 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 entire collection is housed in a room in the west wing of the Administration Building.

In the hope of building up a great technical and general library, in keeping with the College as its creators see it in the future, the effort is being made to lay the foundation in respect of organization, equipment, service, for a library commensurate with the standards of a college of the first class.

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.

The service which the Library gives is, of course, primarily for students and faculty; yet, so far as the resources of the Library permit, service is rendered to outsiders as well. 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.

COLLEGE PUBLICATIONS.

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

STUDENT ACTIVITIES.

RELIGIOUS ORGANIZATIONS.

Young Men's Christian Association.—This organization was established late in the fall of 1925. Its membership is open to the students and the faculty of the Texas Technological College. The work of the organization will be under the direction of a secretary, who will have charge of an employment bureau, maintained for the purpose of securing work for those desiring to earn money to pay their expenses. The bureau will not attempt to guarantee employment; but it will try to secure positions for all who apply.

The religious activities of the association will consist in religious services held from time to time, and in the discussion of social problems.

Young Women's Christian Association.—This organization was established immediately after the opening of the College. Its membership is open to all women students of the College and to the faculty. At

present it is under the direction of the director of physical training for women and the dean of women.

The organization assists in finding positions for women desiring to pay part or all of their expenses in college. The employment bureau does not guarantee work; but it tries to find work suitable to the needs and training of those applying.

Regular devotional services are held each Monday afternoon at 4 o'clock. Every young woman in the College is invited to become a member of this organization which has for its purpose the development of practical Christianity expressed in a spirit of democracy and friendliness.

Other Religious Work.—The local churches of Lubbock cooperate with the College in furnishing adequate 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.

CLUBS AND SOCIETIES.

Woman's Athletic Association.—The purpose of the W. A. A. is to promote interest in gymnastic and athletic activities among the girls of the College as a means of advancing physical efficiency, scholarship, good fellowship, and good health.

The seven sports offered by W. A. A. are baseball, basketball, tennis, hiking, horseback riding, volley ball, and swimming. All athletic awards for girls will be made by W. A. A. The awards will be given on the basis of a point system. It is necessary for a girl to make the team in some sport before she may receive an award.

More than fifty girls made the required number of points for membership during the fall term. The W. A. A. girls assist in furthering sane social activities in the College; two parties open to all the girls of the College were given during the fall term.

The Sock and Buskin Club.—The Sock and Buskin Club is open to men and women interested in dramatic performances. The purpose of the organization is to provide opportunity for good drama, wholesome amusement, and intelligent recreation.

Abundant opportunity will be given for the study of direction, staging, acting, and writing of plays. Each week a one-act play is given. Each member of the organization is given the opportunity of taking part in some play during the year. The club has a membership of one hundred and twelve members, with a long waiting list.

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

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

The Agricultural Club.—The Agricultural Club was organized

November 17, 1925, to foster and promote among the members of the club interest in all matters pertaining to agriculture, and to encourage cooperation among the members in the major projects of the college related to agriculture. There are fifty-seven charter members.

The Tech Pre-Medic Club.—The pre-medic students, over forty in number, organized themselves into a club for the purpose of increasing their knowledge of the profession of medicine and of affording opportunities to get in touch with local members of the medical profession.

The Scientific Society.—Members of the faculty whose work lies in the fields of pure and applied science have organized for the purpose of discussing problems of mutual interest.

Other societies of a semi-college nature have been organized in different dormitories. Among these *Los Picadores*, a men's organization in Cheri Casa Dormitory, has been of much value in fostering loyalty to the College athletic teams.

The Home Economics Club.—The Home Economics Club has completed its organization and several interesting meetings have been held.

The interest, up to the present, has centered around the formulation and adoption of the constitution and the outlining of the work for the year.

The club has as its aims the furthering of interest in problems of the home and the extension of home economics education in the community. All persons interested in these subjects are eligible for membership. A loan fund has been established for the maintaining of a Home Economic Scholarship in the College, and it is hoped that by next September it will be large enough to be of material benefit to some deserving young woman.

The club holds meetings bi-monthly on the first and third Friday afternoons of each month. During each term one large social entertainment will be given and also one project for the making of money for the loan fund.

There are forty-one members enrolled in the club up to date, and it is hoped and expected that this number will be doubled at the beginning of the winter term, and that much of value and enjoyment will be accomplished during the year.

ORATORY AND DEBATE.

It is coming to be recognized more and more that the ability to speak effectively is an extremely valuable asset, and the man of affairs who wishes to influence and persuade cannot achieve the fullest of success without this ability.

The courses offered in oratory and debate include those from simple speeches to formal address. The classroom is a laboratory where much practical work is done. Both informal and formal debates will be studied. Intercollegiate debates will be arranged with some of the best colleges in the State.

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

There are two debating societies in connection with the College.

MUSICAL ORGANIZATIONS.

The following musical organizations have a distinct and real place in our college life: Choral Club, a group of fifty or sixty mixed voices, meeting for the purpose of studying choral works, the production of operettas, etc. The College Orchestra rehearsing the best of concert music and the smaller symphonic compositions. The College Band, composed of over forty students, and the Military Band, of twenty-five. Several vocal quartets and brass quartets are also in operation. All musical organizations are under the general direction of the Professor of Music.

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 resumé of the various activities and interests of the College for the entire year. Both publications are run on a very democratic plan, and reflect the high ideals of the student body of the College.

ATHLETICS.

The physical development of the student is quite as important as his mental development. The most important object of education is to fit the individual for life. Life is a cooperative enterprise; so is intercollegiate athletics. Athletics, therefore, becomes a most important laboratory for college students.

The Texas Technological College fosters and encourages all branches of athletics. Adequate provision in the way of a coaching staff, grounds, and equipment has been made to take care of the four major sports: football, basketball, baseball, and track. Plans for a gymnasium are also being considered, which will afford ample opportunity for exercise and recreation on the part of all students.

All forms of athletics are under the strict supervision of the College. Eligibility rules, similar to those of other institutions of higher learning, have been recommended by the athletic committee and adopted by the College faculty.

EXPENSES AND AIDS.

Tuition and Fees.

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

Registration and incidental fees.....	\$ 8.00
Library fee	1.00
Medical fees	1.75

Total\$10.75

Student activity fees (not compulsory), \$5.00 a year.

Artists' course (not compulsory), \$2.50 a year.

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

The medical fee is required of all students whether they reside with their parents or board elsewhere.

In return for the medical fee each student receives the following advantages:

1. He is given a thorough physical examination at the beginning of the year, or at his entrance in the school. In case of abnormalities he is given advice with a recommendation as to treatment or exercise.

2. He is allowed free consultation with the school physician at any time he desires it.

3. The physician will make, without further charge, calls at the students' homes or at the sanitarium.

4. He will, in case of necessity, have free use of sanitarium facilities, including board, lodging, and general nursing in the sanitarium, 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.

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

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

7. Any minor surgical operations which may be needed by the student, such as for cuts, sprains, and simple fractures, will be performed for him without further cost.

8. The student will receive without further cost examinations and treatments by specialists for eye, 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.

Any student desiring to receive treatment from any other physician than the school physician is permitted to do so at his own expense.

FEES FOR SPECIAL COURSES.

A special fee is charged all students taking work in expression, vocal music, piano, and violin. 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, Mr. Pfaff, 2 lessons per week, per term.....	\$48.00
Voice, Miss Grayum, 2 lessons per week, per term.....	30.00
Piano, Miss Huff, 2 lessons per week, per term and 1 class lesson in theory.....	30.00
Violin, Miss Owens, 2 lessons per week, per term.....	30.00
Expression, Miss Pirtle, 2 lessons per week, per term.....	18.00

LABORATORY BREAKAGE AND FEES.

All students pursuing laboratory courses are required to pay laboratory fees. The fees are intended to cover the cost of the materials used. In the case of breakage charges there is a refund of all unused fees. The breakage deposit is made but once, unless the deposit is used up. The laboratory fees are payable quarterly.

LATE ENROLLMENT AND CHANGE OF COURSE 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 course after his registration is completed will be charged a fee of \$1.00.

After registration, a student may change from one section of a course to another only on petition approved by the chairman of the department concerned and the dean of the college or school, and the payment of a fee of \$1.00.

All fees are due and payable at the beginning of each term. They are to be paid to the College secretary, who is the business manager, Room 105, Administration Building, and must be paid before the student's class card is sent to the instructor.

BOARDING.

While the College has not as yet its own dormitories, there are a number of privately owned dormitories, both for men and for women, where students find excellent accommodations. The management of these dormitories and the College authorities cooperate closely, thus insuring good results to the students. The dormitories are regularly heated with steam, have hot and cold running water in each room, and other modern conveniences, making very satisfactory students' homes.

Prices for board and room range from \$25 to \$40 per month.

Students who prefer to room in private homes find ample facilities near the College. Approved lists of rooming houses, both for men and for 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.

THE COLLEGE CAFETERIA.

The College maintains on the campus a cafeteria operated under the supervision of the School of Home Economics. Here a variety of wholesome, well-cooked food is served for the benefit of the students and faculty. The charges for food and service are exceedingly moderate and make it possible for a student by careful selection to reduce the cost for meals to a minimum.

A number of young men and young women earn their meals by work in the cafeteria.

ESTIMATED ANNUAL EXPENSES.

In order to give some idea of the probable cost per year for a young man at the Technological College, the following careful estimate is given:

Board and room.....	\$250.00.
Fees, other than laboratory fees.....	40.00
Books	25.00
Laundry	25.00
Total	<u>\$340.00.</u>

In some cases the cost will be greater than that above suggested, while in many cases it can be made less. Incidental expenses will be largely what the parent and son are willing for them to be. Twenty-five dollars to fifty dollars should be added to above estimate for a young woman.

AIDS FOR STUDENTS.

The College endeavors to operate on the theory that every young man and every young woman who have the native ability and desire to do so ought to be given an opportunity ultimately to be graduated from college. To that end the college fees have been placed as low, certainly, as is consistent with good instruction. Furthermore, a decided effort is made to assist deserving young people, both men and women, to find work, where necessary to help make their way through school.

It is significant that of the more than one thousand students enrolled during the first year, approximately 250, or one-fourth, of them contributed directly to their own support. The College uses the service of a comparatively large number of students while many others work in and near Lubbock. In a hasty canvass, the following were some of the occupations revealed through which students worked to make a part or all of their expenses:

For Young Women.

Office work	Clerking
House work	Dining room service
Telephone operators	Laboratory assistant
Teaching piano	Library assistant

For Young Men.

Experimental station	Janitors
Assistant librarian	Clerks
Assistants in the	Tailors
Physics Department	Moving picture operator
Textile Engineering assistants	House work
Chemistry assistants	Photographer
Stenographers	Bakery and confectionery
Office work	Draftsmen
College cafeteria	Musicians

College dairy
Waiters
Carpenter work
Garage work
Telephone exchange
Printers

Chauffeur
Railroad employe
Newspaper work
Radio expert
City employes

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 very much worth while.

On the other hand, only in rare cases should a student enroll in College without any funds at all. He should bring at least \$75 to \$100, and have his clothing arranged for if he expects to go through the year.

SCHOLARSHIPS AND PRIZES.

While the Texas Technological College has been opened only a short time, it has made an enviable beginning in the way of providing scholarships for its students. Those scholarships, it is confidently believed, are but a beginning of what will be done as the needs and the opportunities of the College become more generally known.

At the present time the following scholarships are offered:

1. The W. C. Hedrick scholarship of \$250 for highest standing of student in Liberal Arts College.
2. The Lynch Davidson scholarship of \$250 for highest excellence in oratory.
3. The John W. Carpenter scholarship of \$250 for student with highest excellence in textile engineering.
4. The Clifford B. Jones scholarship of \$250 for student with highest excellence of work in agriculture.
5. The Star-Telegram scholarship of \$250 for the best all-round athlete.
6. The Nislar scholarship of \$100 for the athlete who shall also make the highest grade in scholarship during the year.
7. The Lee Allen scholarship of \$125 for some worthy young man to be selected by the faculty.
8. The Athenaeum Club-scholarship of \$100 for some worthy woman to be selected by the faculty.
9. The Lewis T. Carpenter scholarship of \$100 for that young man who shall be adjudged by the faculty to have been the best college citizen during the year closing.
10. The Mary T. Carpenter scholarship of \$100 for that young woman who shall be adjudged by the faculty to have been the best college citizen among the young women of the college for the year just closing.
- 11 and 12. The Dr. J. T. Hutchinson scholarships of \$100 each to be awarded to the young man and young woman, respectively, who have the highest standing in English during the college year.

These scholarships are not payable to the student in cash. They are to be awarded in June, 1927, on the strength of the record made by students during the preceding year. They will be paid to the college authorities to be paid out by them on the expenses of the student at

the Texas Technological College during the following year. Five of these scholarships will pay probably five-eighths of all the expenses of five students at the College during the year 1927-28. All of these scholarships are to be decided in accordance with rules made by the faculty of the institution.

13. The Rhodes scholarship.

Students of Texas Technological College are also eligible to compete for the Cecil Rhodes scholarship of Oxford University, England. The appointment is made for three years and carries with it an annual stipend of approximately \$2,000.

The bases of eligibility are:

1. Qualities of manhood, force of character, and leadership.
2. Literary and scholastic ability and attainments.
3. Physical vigor, as shown by interest in outdoor sports or in other ways.

Dr. J. M. Gordon, Dean of the School of Liberal Arts, is the institutional representative, while President M. W. M. Splawn of the University of Texas is the State chairman of the committee.

ACRE PROJECTS.

Each student attending the Texas Technological College during the year 1926-27, who so desires, will have one acre of ground set apart for his cultivation during the year. No charge will be made for rental, nor for whatever water may be needed for irrigation purposes. He will have free the expert advice of members of the agricultural faculty. These acres may be planted to onions, cantaloupes, watermelons, or other crops, requiring a high degree of intensive cultivation. In many instances a student will make a large percentage of his school expenses from the cultivation of this one acre.

GENERAL INFORMATION.

COEDUCATIONAL.

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

DEMOCRACY OF SPIRIT.

The College believes to be sure that college life is actually living in the present. On the other hand, it believes just as firmly that present college life should prepare definitely for responsibilities in life after college days are over. Furthermore, in a great democracy like our own it stands to reason that democracy of spirit among our student body makes possible the best preparation for a democratic citizenship.

Consequently class distinction is frowned upon, hazing and secret societies, especially Greek letter fraternities, are forbidden, and every

student is encouraged to make a place for himself of real worth to himself and to his community.

SESSIONS AND TERMS.

The sessions of the Texas Technological College consist of the regular annual session of approximately thirty-six weeks and the summer session. The annual session is divided into three terms, each comprising a comparatively distinct unit. The summer session, after 1926, will be equal in time and amount of work done to any one of the regular session terms. The summer session of 1926 will be six weeks in length.

At the close of each term, examinations are given and final grades for the term recorded. A student may enter at the beginning of any term, provided courses are offered that will fit his schedule.

The annual session for 1926-27 will begin September 23, 1926, and close June 7, 1927. The summer term will follow, beginning June 8. The summer term for 1926 begins June 14 and closes July 24.

REGISTRATION.

At the beginning of each term a certain amount of time is set aside definitely for the registration of students. At that time class and other work is suspended and the college gives its entire time to properly placing the students. Students are expected to enroll on the days set aside for registration, and failure to do so entails the payment of a late registration fee.

TRANSCRIPTS OF HIGH SCHOOL CREDITS.

Students proposing to enter the College and who come 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 had 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 carry with it honorable dismissal from the institution attended, and should be forwarded to the College at least five days before the date on which the student expects to enter.

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. If the dean is convinced that withdrawal is necessary the student will be given honorable dismissal from the College and the unused part of any laboratory fees will be returned.

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.

EXCESSIVE ABSENCES FROM CLASS.

Unexcused absences from any class amounting to ten per cent of the number of class meetings for the term automatically suspend the student from the classes in which he has the excessive absences, with a grade of F in the course. Upon the recommendation of his dean, such a student will be permitted to take an examination in the course from which he has been dropped. If he passes the examination satisfactorily, he will be reinstated. Absences from class are reported to the dean of the school in which the student is enrolled. In the case of women enrolled in the School of Liberal Arts reinstatement is made through the dean of women.

DISCIPLINE.

The discipline of the young women of the College is in charge of the dean of women, whereas the dean of the School of Liberal Arts looks after the discipline of the men students.

SUSPENSION FROM SCHOOL.

If and when 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.

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.

EXPLANATION OF COURSE NUMBERS.

The numbers used for designating the courses are uniform in each of the four schools and regularly consist of three digits. Reckoning from left to right the first digit designates the college year in which the course is to be taken; the second digit shows the number of credit hours carried with the course, while the third digit represents the

course numbers. 100-199 regularly represent freshman courses; 200-299, sophomore; 300-399, junior; 400 and above show senior courses.

GRADES OF SCHOLARSHIP.

The marking system used in the College is: A, excellent; B, good; C, fair; D, passing; E, condition; Inc., incomplete; F, failure.

The grade of E is only used in a continuous course and may be raised to a passing grade by the student's making a grade of C or better in the succeeding term.

The grade of Inc. is given in general because of incomplete work in a course, and may be raised to a passing grade within one year by the completion of the required work.

PRESENT ORGANIZATION OF COLLEGE COURSES.

For the beginning year, 1925-26, courses were definitely organized for the freshman and sophomore years. However, certain students of junior standing or above who lacked freshman or sophomore subjects enrolled in the College. For the year 1926-27, the junior year courses will be regularly given, though senior courses have been outlined and will be given in certain instances upon petition of as many as eight students.

THE COLLEGE BOOKSTORE.

For the convenience of the students and faculty the College maintains a bookstore, at which all school books, tablets, pencils, drawing sets, etc., may be purchased. The bookstore is located in one of the College buildings and is kept open at practically all school hours.

STUDENT LIFE REGULATIONS.

Housing Regulations.—Students, both men and women, not residing with their parents while attending the College, are expected to conduct themselves in a proper and reasonable manner in their rooming houses, maintaining at all times conditions suitable for quiet study. They are not allowed to room or board at any house not approved by the faculty for that purpose.

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

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

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

Special Regulations Applying to Women Not Residing with Their Parents.

1. All women students must register their residence with the Dean of Women at the time of registration, and will not be allowed to live

in a house not on the official list, except by special permission of the Dean of Women.

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

3. Quiet hours shall be maintained after 8 o'clock every night except Friday and Saturday nights, holidays, and the nights preceding holidays.

4. Women students are not expected to attend more than two social affairs during the week. They are expected to be in their homes by 12 o'clock on the night of such parties. Social affairs on nights other than Friday and Saturday should be arranged for with the Dean of Women.

5. On all nights other than those specified, women students are expected to be in their rooms by 10:30.

6. All housemothers are requested to cooperate with the Dean of Women in furnishing sane, healthful surroundings for the women of the College. Cases of illness among women students should be reported at once to the Dean of Women.

7. Infractions of rules are to be reported to the Dean of Women. Failure to report infractions will necessitate the removal of the housemother's name from the approved list.

Official Lists of Rooming Houses.—The College has a standing committee on house 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 cooperate with the College in carrying out its regulations. The house must be used for rooming men or women exclusively, unless such a house is given over entirely to married couples. A house should be screened, should have sewerage connections, have hot water available in the bathrooms, and have adequate heating facilities for bedrooms. There should be a parlor available in each girls' house. Failure on the part of the householders to provide the accommodations specified should be reported to the housing committee.

Housing Accommodations for Men.—Rooming and boarding houses are being operated near the campus. Cheri Casa and other dormitories have been opened. A list of approved boarding houses will be furnished upon application to the Dean of the School of Liberal Arts.

Housing Accommodations for Women.—College Inn, a girls' dormitory, and boarding and rooming houses are available within a short distance of the College. A list of approved boarding houses will be furnished upon application to the Dean of Women.

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 for smallpox or be vaccinated at their own expense after coming to Lubbock. The College medical fee does not include vaccination privileges.

SCHOLARSHIP REQUIREMENTS.

Admission to any of the schools of the College requires fifteen high school units, among which number must be at least three units of English and two of mathematics. Specific requirements for a particular school may be found under the discussion for admission requirements of each school, e. g., Engineering, Agriculture, etc.

The term high school unit is the equivalent of a high school subject pursued five periods a week for at least thirty-six weeks, four such units constituting a year's work.

ADMISSION BY CERTIFICATE.

Graduates of accredited high schools presenting a minimum of fifteen units will be admitted to the freshman class of the College without examination. For unconditional admission to a particular school of the College the required units for admission to that school must be included in the list of credits offered from the high school.

SUBJECTS AND UNITS ACCEPTED FOR ADMISSION.

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

Prescribed.

English, 3
Algebra, 1
Plane Geometry, 1
Foreign Language, 2

This requirement is prescribed, but a student may be admitted without it and make it up later.

Complete List.

English, 3 or 4
Social Sciences:
Ancient and Medieval History, 1
Modern History, 1

American History, $\frac{1}{2}$ or 1
English History, $\frac{1}{2}$ or 1
Civics, $\frac{1}{2}$ or 1
Economics, $\frac{1}{2}$

Mathematics:	Physics, 1
Algebra, 1 or 2	Physiography, $\frac{1}{2}$
Plane Geometry, 1	Physiology and Hygiene, $\frac{1}{2}$ or 1
Solid Geometry, $\frac{1}{2}$	Zoology, 1
Trigonometry, $\frac{1}{2}$	*Vocational Subjects:
Advanced Arithmetic, $\frac{1}{2}$	Agriculture, $\frac{1}{2}$ -2
Foreign Languages:	Bookkeeping, 1
Latin, 2, 3, or 4	Commercial Geography, $\frac{1}{2}$
Greek, 2 or 3	*Commercial Law, $\frac{1}{2}$
German, 2 or 3	Domestic Art, $\frac{1}{2}$ -1 $\frac{1}{2}$
French, 2 or 3	Domestic Science, $\frac{1}{2}$ -1 $\frac{1}{2}$
Spanish, 2 or 3	*Drawing, $\frac{1}{2}$ or 1
Natural Sciences:	*Manual Training, $\frac{1}{2}$ or 1
Biology, 1	Shorthand and Typewriting, 1
Botany, 1	Argumentation and Debating, $\frac{1}{2}$
Chemistry, 1	Music, 1
Introduction to Science, 1	

ADMISSION BY EXAMINATION.

Students who have not been graduated from fully accredited high schools have the privilege of presenting themselves for entrance examinations, passing which they will be admitted to the freshman class.

In the spring each year entrance examinations are held throughout the State under the supervision of the State Department of Education. The examinations held in May are conducted in each county and the papers are graded by the State Department at Austin. Subjects successfully passed and certified to by the State Department will be accepted for entrance to the Texas Technological College provided they are subjects that meet our requirements.

At the opening of the fall term and at the beginning of the winter term, the College will give entrance examinations to those who need credits for entrance. The examination for the fall of 1926 is as follows:

SCHEDULE OF EXAMINATIONS.

Thursday, September 16.

Forenoon:		Afternoon:	
8:00-10:00	10:00-12:00	1:00-3:00	3:00-5:00
English	Economics	Algebra	Zoology
Biology	Stenography	Agriculture	Manual Training
Botany	Typewriting	Sociology	Commercial
			Geography

Friday, September 17.

Amer. History	Public Speaking	French	Dom. Art
Modern and	Chemistry	German	Dom. Science
Medieval Hist.	Physics	Spanish	Drawing
Physiology		Latin	

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

Saturday, September 18.

Plane Geometry	Amer. History	Advanced Arith.
Solid Geometry	Eng. History	Gen. Science
Trigonometry	Bookkeeping	Physiography
		Com. Law

BY STATE TEACHER'S CERTIFICATE.

Applicants holding a State teacher's certificate based on State examinations will receive credit in proportion to the number of acceptable subjects taken for the certificate.

Students 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.

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. An applicant for admission on individual approval will fill out the special application blank, write a composition of not less than five hundred words, and show by whatever other means the dean requires that likely he is able to make the courses for which he wishes to enroll. Before becoming a candidate for a degree, he will be expected to have met the entrance requirements and be regularly enrolled in College.

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, two of a foreign language 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 either the foreign language or the 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. The first course in any of the foreign language course (131, 132, 133) may be used to absolve the two entrance units in this language provided, of course, it cannot at the same time earn college credits.

ADMISSION TO ADVANCED STANDING.

Students transferring from other colleges of equal standing of the Texas Technological College will be given full credit for all courses taken in such colleges, provided such courses or their equivalent are given for credit at the Texas Technological College. Wherever there is doubt about certain courses, the matter should be taken up with the dean of the school in which credit is desired.

PRE-BUSINESS ADMINISTRATION, PRE-MEDICAL AND PRE-LAW
REQUIREMENTS.

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

STUDIES PREPARATORY TO LAW.

The minimum requirement for admission in any standard law school is fifteen (15) entrance units, as prescribed by the College of Liberal Arts, and two full years of college work (10 courses). One of these courses must be in English and one in government or economics.

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

Freshman year: English; a foreign language; history; government; mathematics or a natural science.

Sophomore year: English, the third quarter of which may be public speaking; a second course in the foreign language begun in the freshman year; American history; economics; government.

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

STUDIES PREPARATORY TO MEDICINE.

The minimum entrance requirements are fifteen standard units as prescribed by the school of Liberal Arts and a minimum of two full years of college work. The following curriculum is recommended for students who plan to study medicine:

Freshman Year

English 131, 132, 133.
German 131, 132, 133 *or*
French 131, 132, 133.
Government 131, 132, 133
Chemistry 141, 142, 143
Zoology 141, 142, 143

Sophomore Year

English 231, 232, 233
Foreign language begun in freshman year. (Course 231, 232, 233.)
Chemistry 343, 344, 345.
Physics 141, 142, 143.
Zoology 241, 242, 243.

Junior and Senior Years.

Specific suggestions will be added at a later time.

PRE-BUSINESS ADMINISTRATION.

The entrance requirements are the same as they are for law and medicine. College courses leading to business administration are as follows:

1. English 131, 132, 133 and either Journalism 134, 135, 136, or English 231, 232, 233.
2. One course in mathematics.
3. One course in government.
4. One course in economics.
5. One course in science.
6. One course in psychology, or two-thirds of a course in psychology and one-third of a course in philosophy.
7. One course in business administration.
8. One course elective.

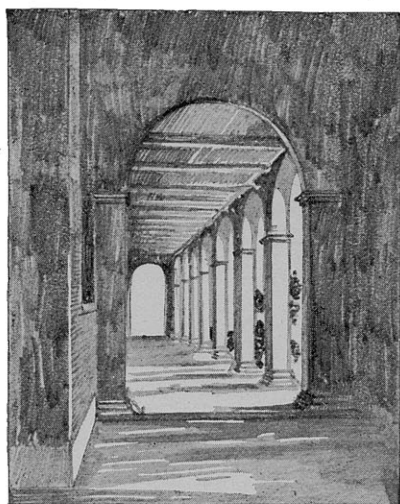
REQUIREMENTS FOR GRADUATION.

Specific requirements for graduation from the various schools will be found under this heading in the discussion given by the schools of this College.

In general, the completion of a certain number of required courses, together with certain elective courses with a definite sequence arrangement, constitutes graduation requirement.

The term course means the equivalent of three recitation hours per week throughout the full year of thirty-six weeks. In some instances the expression "credit hours" is used. A credit hour signifies the equivalent of one recitation hour per week for a term of twelve weeks. Nine credit hours equal one course.

Furthermore, 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.



ARCHWAY, TEXTILE ENGINEERING
BUILDING

SCHOOL OF LIBERAL ARTS.

ADMINISTRATIVE OFFICERS.

PAUL WHITFIELD HORN, M. A., LL. D., *President*.

JAMES MARCUS GORDON, M. A., LL. D., *Dean*.

EBEN L. DOHONEY, B. Litt., *Secretary of the Faculty*.

INSTRUCTIONAL OFFICERS.

LEWIS DARWIN AMES, *Professor of Mathematics*.

B. A., Harvard, 1901; M. A., 1902; Ph. D., 1904.

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

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

CHARLES DUDLEY EAVES, *Professor of History*.

B. A., Texas, 1916; M. A., Chicago, 1922.

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

B. A., Oxford College, 1890; M. A., Texas, 1924.

DONALD ALEXANDER FLANDERS, *Professor of Mathematics*.

B. A., Haverford College, 1922.

GUS L. FORD, *Professor of History*.

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

EDWING YOUNG FREELAND, *Professor of Physical Education and Head Coach*.

B. A., Vanderbilt, 1912.

FREEMAN DENT GALBRAITH, *Associate Professor of Chemistry*.

B. S., Valparaiso, 1910; B. A., Texas, 1922; M. A., 1923.

WILLIAM BRYAN GATES, *Associate Professor of English*.

B. S., Millsaps College, 1918; M. A., Vanderbilt, 1921.

MRS. EUNICE JOINER GATES, *Instructor in English*.

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

E. F. GEORGE, *Professor of Physics; Head of Department*.

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

JOHNNYE GILKERSON, *Instructor in Physical Education for Women*.

B. A., Texas, 1925.

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

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

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

B. A., Randolph-Macon, 1896; M. A., Chicago, 1908; Ph. D., 1909; B. D., Vanderbilt, 1899; D. D., Kentucky Wesleyan, 1913.

RICHARD CLARENCE HARRISON, *Professor of English; Head of Department.*

B. A., Texas, 1912; M. A., 1917; M. A., Harvard, 1922.

GRAILY HEWITT HIGGINBOTHAM, *Assistant Coach.*

HARRY HILL, *Adjunct Professor of Physics.*

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

MARGARET JOHNSON HUFF, *Piano.*

B. M., American Conservatory.

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

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

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

FLORA POWELL MCGEE, *Associate Professor of English.*

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

CLARENCE S. MAST, *Professor of Physics.*

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

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

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

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.

ALBERT GOTTLIEB PFAFF, *Vocal Music.*

Pupil of Horatio Parker, N. Y.; Wm. H. Lee; Theodore Van Yorx; Ross David; Oscar Seagle.

LUTHER APPEL PFLUEGER, *Professor of French and German; Head of Department.*

B. A., Muhlenberg College, 1906; M. A., Indiana, 1913; Ph. D., Wisconsin, 1923.

RUTH PIRTLE, *Professor of English and Public Speaking.*

Student, Hickman School of Speech Arts; Lyceum Arts Conservatory; Colorado University; University of California.

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

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

W. L. RAY, *Professor of Chemistry.*

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

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

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

GEORGE SMALLWOOD, *Professor of English.*

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

ELIZABETH THATCHER STAFFORD, *Adjunct Professor of Mathematics.*

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

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

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

MRS. RUTH STUDHALTER, *Instructor in Biology.*

B. A., Missouri, 1911; M. A., Washington, 1917.

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

F. A. G. O., 1914.

FRANCES WHATLEY, *Associate Professor of Spanish.*

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

WILLIAM MARVIN WHYBURN, *Associate Professor of Mathematics.*

B. A., Texas, 1922; M. A., 1923.

STATEMENT OF AIM.

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

REQUIREMENTS FOR GRADUATION.

Entrance Requirements.

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

A list of the subjects and units accepted for admission will be found on page 34.

REQUIREMENTS IN THE COLLEGE.

1. English	2 courses	2 courses
(One-third of the second year course may be taken in Public Speaking.)		
2. Foreign Language	2 courses	
If three or four units have been offered in high school and the same language is continued in college.....		1 course
*3. Social Science: history, government, economics, sociology	2 courses	
If three units have been offered in high school		1 course
4. Mathematics	1 course	
If three units have been offered in high school		$\frac{2}{3}$ course
*5. Science (must be laboratory science).....	2 courses	
If two units (3 if general or introductory science is included) have been offered in high school		1 course
6. Psychology or Philosophy.....	$\frac{1}{3}$ course	$\frac{1}{3}$ course
Total.....		9 $\frac{1}{3}$ courses 6 courses
7. Physical Education	2 years	2 years

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

1. English, two courses; the last third of the second course may be taken in Public Speaking.

2. Mathematics, one full course. If three units of mathematics were offered in high school, two-thirds of a course in college will satisfy the requirements.

3. Social Science, two courses. If three units were offered in high school, one college course will meet the requirement. Provided if two courses are required they may not both be taken in the same subject.

4. Sciences, two courses. If two units of science were offered in high school (three if general or introductory science is included) one college course will meet the requirements. Provided, if two courses are required they may not both be taken in the same subject.

5. Philosophy or Psychology, one-third course.

6. Additional courses to make the sum total of twenty courses exclusive of physical or military training two years of which must be taken without college credit.

7. As a part of the requirements given in (6) there must be a major sequence consisting of at least three advanced courses in one subject and in addition one minor of two advanced courses or two minors of one advanced course each. In each case the major and minor subjects ought to be selected in conference with the departments concerned.

*If two courses are required they may not both be taken in the same field.

8. A minimum residence of one year at the Texas Technological College and if only one year is given to this College it should be the senior year.

9. Two years' work in physical education.

The specific scholastic requirements are summed up as follows:

COURSES FOR FRESHMAN YEAR.

For all liberal arts students except pre-medical, pre-law, and pre-business administration students.

1. English.
2. Any three of the following:
 - Foreign language.
 - Mathematics.
 - Science.
 - Social Science.
3. A fifth subject in (2) or elective.

COURSES FOR SOPHOMORE YEAR.

1. Any of the curriculum constants not already completed.
2. Courses in the degree group which the student may elect; the following degree groups are suggested:
 - English.
 - Foreign language.
 - Mathematics.
 - Science.
 - Social Science.

COURSES FOR JUNIOR AND SENIOR YEARS.

Continue the degree group selected which must include a major of three advanced courses in one subject together with a minor of two advanced courses in one subject or one advanced course in each of two subjects.

The total number of term hours for graduation is one hundred eighty-six including six term hours of physical education or physical or military training.

COURSES OF INSTRUCTION.

BIOLOGY.

The courses in this department are planned to fulfill a number of distinct needs, which are summarized in the following paragraphs:

1. Liberal Arts students desiring to fulfill part of the science requirements for the degree, may register for Botany 131, 132, 133, or Zoology 131, 132, 133, or Zoology 134, 135, 136.

2. Pre-medical students should take Zoology 141, 142, 143, and Zoology 241, 242, 243; Zoology 331, 332, 333 is highly recommended if the student takes three years of academic work before entering medical school.

3. Agriculture students are interested fundamentally in Botany 131, 132, 133, and Zoology 234, 235, 236. These may be followed by some of the following courses, the sequence and the choice of courses depending on the major interest of the student: Botany 231, 232; Botany 233; Botany 331, 332, 333; Botany 334, 335, 336; Botany 431, 432, 433; Bacteriology 231; Bacteriology 232, 233; Bacteriology 330; Zoology 330.

4. Home Economics students find Zoology 134, 135, 136, and Bacteriology 231, 232, 233 of fundamental value.

5. Civil Engineering students register for Bacteriology 431, 432, 433 during their senior year.

6. Prospective teachers of natural science in the high school should take as a minimum either of the following: (a) Botany 131, 132, 133; Botany 231, 232; Botany 233; Botany 331, 332, 333; Botany 431, 432, 433; and one course in Zoology; or (b) Zoology 131, 132, 133; Zoology 231, 232, 233 (or 241, 242, 243); Zoology 331, 332, 333; Zoology 441, 442, 443; Botany 131, 132, 133; and Botany 233.

7. Prospective teachers in the grades derive much benefit from Zoology 134, 135, 136.

8. Students who major in Biology should use Botany 131, 132, 133 and Zoology 131, 132, 133 as the foundation courses in this department. The courses which are to follow these will depend upon the major interest of the student. Minors may be taken in Chemistry, Geology, or Physics.

I. BOTANY.

Botany 131, 132, 133. General Botany.

Open to all freshman students.

The major topics covered 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.

Two recitations and three hours in the laboratory. Laboratory fee, \$1.50 per term; deposit, \$1.00 per term. Text: Brown's Textbook of General Botany.

Botany 231, 232. Plant Morphology.

Prerequisite: Botany 131, 132, 133.

The morphology of the algae and the fungi occupy the time of the fall term, while that of the winter term is devoted to the bryophytes, pteridophytes, and spermatophytes, with emphasis upon the latter.

One recitation or lecture and six hours in the laboratory; an additional lecture may occasionally be substituted for three hours in the laboratory. Laboratory fee, \$1.50 per term; deposit, \$1.00 per term.

Botany 233. Taxonomy of the Spermatophytes.

Prerequisite: Botany 131, 132, 133.

A study is made of the classification of the flowering plants, with emphasis upon the local flora.

One recitation and six hours in the laboratory or field. Laboratory fee, \$1.50 per term; deposit, \$1.00 per term.

Botany 331, 332, 333. Plant Physiology. Advanced.

Prerequisite: 18 term-hours in Botany and 9 term-hours in Chemistry.

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

One recitation or lecture and six hours in the laboratory; an additional lecture may occasionally be substituted for three hours in the laboratory. Laboratory fee, \$2.00 per term; deposit, \$1.50 per term.

Botany 334, 335, 336. Plant Pathology. Advanced.

Prerequisite: 18 term-hours in Biology (including Botany 131, 132, 133, and Bacteriology 231) and 9 term-hours in Chemistry.

This course consists of lectures, assigned readings and reports, laboratory work, and field work on the more common fungous and bacterial diseases of plants and on the nematode pests of plants.

Two lectures and three hours in the laboratory or field. Laboratory fee, \$2.00 per term; deposit, \$1.50 per term.

(Not offered in 1926-1927.)

Botany 431, 432, 433. Histology and Cytology of Plants. Advanced.

Prerequisite: Botany 331, 332, 333.

A detailed study of plant tissues and cells constitutes the basis of the work in this course. The laboratory work consists of the preparation and study of permanently mounted plant tissues.

One lecture and six hours in the laboratory; an additional lecture may occasionally be substituted for three hours in the laboratory. Laboratory fee, \$2.00 per term; deposit, \$1.50 per term.

(Not offered in 1926-1927.)

II. BACTERIOLOGY.

Bacteriology 231. Principles of Bacteriology.

Prerequisite: 9 term-hours in Biology and 9 term-hours in Chemistry.

A study is made of the general morphology and physiology of bacteria and of bacteriological laboratory technique.

Two lectures and three hours in the laboratory. Laboratory fee, \$2.00 per term; deposit, \$1.50 per term.

Bacteriology 232, 233. General Bacteriology.

Prerequisite: Bacteriology 231.

Some specific problems of bacteriology are considered, including some disease-producing bacteria in man, in animals, and in plants; water

purification; sewage disposal; the bacteriology of milk and milk products; the bacteriology of foods; soil organisms; yeasts and molds; and the problem of immunity.

Two lectures and three hours in the laboratory: Laboratory fee, \$2.00 per term; deposit, \$1.50 per term.

Bacteriology 330. Soil Bacteriology. Advanced.

Prerequisite: Bacteriology 231 and 15 additional term-hours in Biology.

This is a more extended course in the micro-organisms of the soil.

Two lectures and three hours in the laboratory. Laboratory fee, \$2.00 per term; deposit, \$1.50 per term.

(Not offered in 1926-1927.)

Bacteriology 431, 432, 433. Engineering Sanitation.

Prerequisite: Senior standing in Civil Engineering.

The fall term is devoted to a general study of sanitation. In the winter, general bacteriology is considered. The work of the spring term consists of a more detailed study of the topics of water supply and sewage disposal.

Two lectures and three hours in the laboratory. Laboratory fee, \$2.00 per term; deposit, \$1.50 per term.

(Not offered in 1926-1927.)

III. ZOOLOGY.

Zoology 131, 132, 133. General Zoology.

Open to all freshman students.

The major topics considered during the fall and winter terms are the meaning and history of zoology; the origin and meaning of life; the cell; cell division; and a review of the more important phyla of the animal kingdom, with emphasis upon the frog. In the spring, a number of general principles are studied, including reproduction, adaptation, geographical distribution, evolution, genetics, and eugenics.

Two recitations and three hours in the laboratory. Laboratory fee, \$1.50 per term; deposit, \$1.00 per term. Text: Newman, Outlines of General Zoology.

Zoology 134, 135, 136. Human Physiology.

Open to all freshman students.

Emphasis is placed on the various physiological processes of the human body, and their application to hygienic and sanitary practices.

Two recitations and three hours in the laboratory. Laboratory fee, \$1.50 per term; deposit, \$1.00 per term. Texts: Stiles, Human Physiology. (Especially recommended to students who expect to become teachers.)

Zoology 141, 142, 143. General Zoology for Pre-Medic Students.

Open only to pre-medic students.

The work is identical with that of Zoology 131, 132, 133, but the student does two hours of additional laboratory work per week in order to meet the requirements of Class A medical colleges.

Two recitations and five hours in the laboratory. Laboratory fee, \$2.00 per term; deposit, \$1.00 per term. Text: Newman, Outlines of General Zoology.

Zoology 231, 232, 233. Invertebrate Zoology.

Prerequisite: 9 term-hours in Zoology.

This course covers a study of invertebrates.

Two lectures and three hours in the laboratory. Laboratory fee, \$1.50 per term; deposit, \$1.00 per term.

(Not offered in 1926-1927.)

Zoology 234. Principles of Zoology.

Prerequisite: Botany 131, 132, 133; this course is intended primarily for agriculture students and is not open to students who have completed Zoology 131 or Zoology 141.

A knowledge is presupposed on the part of the student of the structure and functions of the cell and tissues, and of a certain amount of laboratory technique. A study is made of some typical animals and of some fundamental zoological principles.

Two lectures and three hours in the laboratory. Laboratory fee, \$1.50 per term; deposit, \$1.00 per term.

Zoology 235. Applied Zoology.

Prerequisite: Zoology 234; this course is intended primarily for agriculture students, and is not open to students who have completed Zoology 131, 132, 133, or Zoology 141, 142, 143.

A consideration is given to various phases of applied zoology, such as economic protozoa, the nematodes, the fundamentals of animal anatomy and physiology, animal parasites, and reproduction.

Two lectures and three hours in the laboratory. Laboratory fee, \$1.50 per term; deposit, \$1.00 per term.

Zoology 236. Economic Entomology.

Prerequisite: Zoology 235 or Zoology 131, 132, 133.

The more important insect pests of plants are studied in the classroom, laboratory and field.

Two recitations and three hours in the laboratory or field. Laboratory fee, \$1.50 per term; deposit, \$1.00 per term.

Zoology 241, 242, 243. Vertebrate Anatomy.

Prerequisite: 9 term-hours in Zoology.

The classroom work involves a study of the morphology, physiology,

adaptations, and embryological origins of the various systems of organs in the vertebrates. In the laboratory, a study is made of the anatomy of the dogfish, necturus, turtle, bird, and mammal.

Two recitations and five hours in the laboratory. Laboratory fee, \$2.00 per term; deposit, \$1.50 per term.

Zoology 330. Animal Parasites. Advanced.

Prerequisite: 18 term-hours in Biology, including 9 term-hours in Zoology.

This course, intended primarily for agriculture students, deals with the more common parasites of the domesticated animals.

Two lectures and three hours in the laboratory. Laboratory fee, \$2.00 per term; deposit, \$1.00 per term.

(Not offered in 1926-1927.)

Zoology 331, 332, 333. Animal Cytology and Embryology. Advanced

Prerequisite: 18 term-hours in Zoology.

Cytology is the topic considered during the fall term. The laboratory work consists of preparing sections of animal tissues and studying the cell. During the winter and spring terms, the embryology of the higher animals is studied, with emphasis in the laboratory on the embryology of the chick.

One recitation and six hours in the laboratory; an additional recitation may occasionally be substituted for three hours in the laboratory. Laboratory fee, \$2.00 per term; deposit, \$1.50 per term.

(Not offered in 1926-1927.)

Zoology 431, 432, 433. Zoological Problems. Advanced.

Prerequisite: Zoology 331, 332, 333, and any other courses deemed necessary for the problems to be worked out.

Assigned problems will be studied by means of readings, conferences, and laboratory work.

Hours to be arranged. Laboratory fee, \$2.00 per term; deposit, \$1.50 per term.

(Not offered in 1926-1927.)

CHEMISTRY.

The following courses in Chemistry are regarded as elementary for degree requirements for the Bachelor of Arts degree: Courses 141-2-3; 231-2-3; 237-8-9; 331-2; 336-7-8, Section A; 339.

Chemistry 234-5-6 may be counted as an advanced course if Chemistry 237-8-9 has been completed.

Chemistry 343-4-5 may be counted as an advanced course if Chemistry 237-8-9 has been completed or if Chemistry 231-2-3 has been completed.

The following courses are regarded as advanced courses without conditions of any sort: 336-7-8, Section B; 431-2-3; 441-2-3; 437-8; and 434-5-6.

Chemistry 141, 142, 143. Elementary General Chemistry.

Three lectures, three hours laboratory per week.

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

Section B. For students who have studied Chemistry in high school and who have entrance credits in the subject.

Required for Engineering, Agriculture, and Home Economics freshmen. Elective as natural science for students in Liberal Arts.

A course in the fundamental principles of Chemistry, which is prerequisite for all other courses in Chemistry.

Chemistry 231, 232, 233. Theoretical and Analytical Chemistry.

Two lectures, three hours laboratory per week.

Prerequisite: Chemistry 141, 142, 143.

The laboratory work of the first term will include the simple identifications and separations of qualitative analysis. The second and third terms will be devoted to quantitative analysis. The lectures will cover the work of the laboratory and the theories of chemistry illustrated by the experiments. This course is intended for those who can devote only a limited amount of time to the study of chemistry, and is not recommended for those preparing for medical school or for any other course which involves considerable chemistry.

Chemistry 234, 235, 236. Advanced Inorganic Chemistry.

Three lectures per week.

Prerequisite: Chemistry 141, 142, 143.

This course deals more thoroughly with the theories and principles of chemistry than is possible in an introductory course. Special attention is paid to modern advances in chemical theory. The discussion is non-mathematical, and the course is intended as a foundation for the later course in Physical Chemistry.

Chemistry 237, 238, 239. Analytical Chemistry.

Nine hours laboratory per week.

Prerequisite: Chemistry 141, 142, 143, and Chemistry 234, 235, 236 (the latter may be taken during the same year as the above course).

Qualitative Analysis will be completed in the first term and the second and third terms devoted to Quantitative Analysis. This course is required for all students majoring in Chemistry, and is advised for those working in other fields of science who wish a thorough foundation in Chemistry.

Chemistry 331, 332. Organic Chemistry (Short Course).

Two lectures, three hours laboratory per week, Fall and Winter terms.

Prerequisite: Chemistry 141, 142, 143.

This course is designed for those who do not have time for a more extensive study of Organic Chemistry. It is required for Home Eco-

nomics and Agriculture students, and other students are admitted only by special permission.

Chemistry 343, 344, 345. Organic Chemistry (Long Course).

Three lectures, three hours laboratory per week.

Prerequisite: Chemistry 141, 142, 143.

This course deals with the fundamental theories and principles of that division of chemistry which has to do with the compounds of carbon, and is taught with a view to providing a thorough foundation for other courses in organic, physiological, and industrial chemistry.

Chemistry 336, 337, 338. Industrial Chemistry.

Three lectures.

A. For students who wish an elementary descriptive course in the application of chemistry to modern industry.

Prerequisite: Chemistry 141, 142, 143.

The subject is covered in a non-technical way, and the economic side is specially stressed.

B. For students majoring in Chemistry.

Prerequisites: Chemistry 234, 235, 236 and Chemistry 343, 344, 345. (Either or both of these courses may be taken along with Chemistry 336, 337, 338.)

The leading chemical industries are studied from the points of view of unit chemical engineering operations, the fundamental theories and principles of chemistry involved, and economic and business principles.

Chemistry 339. Power Plant Chemistry.

Nine hours laboratory, Fall term.

Prerequisite: Chemistry 141, 142, 143.

Required for engineers. A course dealing with boiler feed water, fuel, and lubricants, and the practical testing of these materials for use in the power plant. (Repeated in Winter term.)

Chemistry 431, 432, 433. Technical Analysis.

Nine hours laboratory.

Prerequisites: Chemistry 141, 142, 143, and one of the courses in Analytical Chemistry and one in Organic Chemistry.

This course is divided into thirds. Any of these may be taken by students interested and properly qualified. Standard commercial methods of analysis of natural and manufactured products are used. Among the various topics, the following are available for selection:

Food analysis.....	One-third
The testing of stock feeds.....	One-third
Fertilizer and soil analysis.....	One-third
Animal and vegetable oils.....	One-third
Petroleum products.....	One-third
Water analysis.....	One-third
Fuel analysis.....	One-third

(Not offered in 1926-1927.)

Chemistry 441, 442, 443. Physical Chemistry.

Three lectures, three hours laboratory.

Prerequisites: Chemistry 234, 235, 236, Chemistry 237, 238, 239, and Chemistry 343, 344, 345.

Familiarity with the principles of physics and a working knowledge of calculus are presupposed. The course deals with modern theories of Physical Chemistry and the method of making those physical measurements employed by physical chemists.

(Not offered in 1926-127.)

Chemistry 437-8. Physiological Chemistry.

Two lectures, three hours laboratory. Winter and Spring terms.

Prerequisites: Chemistry 141, 142, 143, and either the short or long course in Organic Chemistry.

The chemistry of carbohydrates, proteins, and fats is discussed in the light of the metabolism of these materials. Some time is devoted to the chemistry of the blood.

(Not offered in 1926-127.)

Mechanical Engineering Chemistry 321-322. Chemical Plant Design.

Six hours drawing and calculations per week, two terms.

After gaining familiarity with chemical engineering equipment used in unit operations, the students arrange this equipment in various types of chemical plants on the basis of the most efficient power transmission and handling of materials.

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

Three lectures per week.

Prerequisites: Chemistry 441, 442, 443, Calculus, and those engineering subjects included in the second and third years of the Mechanical Engineering course with Chemical Engineering option.

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

Chemistry 141, 142, 143: Laboratory fee, \$2.00 per term. Deposit, \$4.00 per year.

Chemistry 231, 232, 233: Laboratory fee, \$2.00 per term. Deposit, \$6.00 per year.

Chemistry 234, 235, 236: No laboratory fee.

Chemistry 237, 238, 239: Laboratory fee, \$3.00 per term. Deposit, \$6.00 per year.

Chemistry 331, 332: Laboratory fee, \$2.00 per term. Deposit, \$6.00 per year.

Chemistry 343, 344, 345: Laboratory fee, \$2.00 per term. Deposit, \$6.00 per year.

Chemistry 336, 337, 338. No laboratory fee.

Chemistry 339: Laboratory fee, \$3.00 per term. Deposit, \$6.00 per year.

SOCIOLOGY.

Sociology 231, 232, 233. Principles of Sociology.

An introductory course. During the first part of the school year social origins and anthropology will be studied, and during the latter part social psychology.

Sociology 234, 235, 236. Rural Sociology and Urban Problems.

During the first part of the school year the problems of the country will be studied, and during the latter part those of the city.

Sociology 237, 238, 239. Social Pathology.

A study of society in its abnormal aspects: social maladjustments: poverty, dependency, delinquency, crime, etc.

Sociology 331, 332, 333. History of Social Thought.

This will include both social ideas and theory before Sociology became a distinct science, and also more recent systematic social theory. Only students above the sophomore year are to be admitted.

Sociology 334, 335, 336. Social Problems.

An advanced course in the nature of a seminar, calling for research work and the study of specific problems. Such subjects as the following will be taken up: Population, Eugenics, Immigration, Labor Problems, the Woman Movement, the Liquor Question, the Family, War, Economic Justice, and Democracy.

Sociology 337, 338, 339. Modern Social Prophets.

An effort will be made to grasp the social significance, philosophy, and message of modern thinkers who have expressed themselves in literature rather than in systematic form, such as Russian, Scandinavian, German, French, English, and American novelists, dramatists, and poets. This course is only for advanced students.

Sociology 431, 432, 433. Race Problems.

A study of race differences, race relations, etc.

Sociology 434, 435, 436. The Social Program of the Church.

A study of the social mission of the church and the ways in which different religious groups are understanding and meeting their obligations to society.

Students taking advanced courses in Sociology should have had work in Biology and Psychology.

ECONOMICS AND BUSINESS ADMINISTRATION.

Economics 231, 232, 233. Introduction to Economics.

A general introductory course covering the fundamental principles underlying the organization of modern industrial society with applications to the outstanding economic problems of the present day.

Open to all students except freshmen.

Economics 331, 332. Money and Banking.

A study of the monetary and banking systems of the United States, with some comparisons of other systems.

Prerequisite: Economics 231, 232, 233.

Economics 333. Investments.

The theory and practice of investments.

Prerequisite: Introduction to Economics.

Economics 421, 422, 423. Public Finance.

A consideration of public revenue, public expenditure, public debt, and financial administration.

Prerequisite: Introduction to Economics.

Economics 334, 335, 336. Introduction to Business Administration.

This course is designed for students who have a basic knowledge of Economics but who desire a more detailed knowledge of business organization and methods.

Prerequisite: Introduction to Economics.

Economics 337, 338, 339. General Accounting.

An introduction to accounting, involving both theory and practice.

Prerequisite: Introduction to Economics.

Business Law.

For number and description of courses see "Government."

NOTE.—Other courses in Economics and Business Administration will be provided to meet needs that arise. Students who plan a business course should consult with the head of the Department of Economics.

EDUCATION AND PSYCHOLOGY.

Courses in Education are planned specifically for students who wish either to teach for a few years or make teaching their life work. College students oftentimes find it necessary to teach one or two years before they finish their college course. State certificates based on college courses help make this possible. Certificates can be had for work done in any one of the schools of the Texas Technological College whether the school be Home Economics, Agriculture, Engineering, or Liberal Arts. A brief outline of the amount and character of work necessary for the various certificates is given herewith:

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 course 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 course bears wholly on high school education, and one course 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 course 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.

EDUCATION.

Education 131. Introduction to Education.

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

Education 132. Classroom Organization and Control.

A study of the problems of classroom organization and control. Features of administration and management growing out of the facts concerning pupil population, together with the technique of studying them. The fundamental principles of classroom management and their application in the schoolroom.

Education 133. Methods of Teaching in the Elementary Grades.

Methods of learning involved in the various school subjects and corresponding methods of teaching; planning lessons and criticism of

recitation work; type lessons in reading, language, arithmetic, spelling, history, geography, etc.

Education 232. History of Education.

Educational ideals, ancient and modern. Education as related to civilization, development of public education, current educational problems in the light of experiences in the past.

Prerequisite: Sophomore standing.

Education 233. Measurement in Education.

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

Education 234. Secondary Education.

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.

Prerequisite: Sophomore standing.

Education 235. The High School Curriculum.

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

Education 236. Methods of Teaching in the High School.

Economy in classroom management; selection and arrangement of subject matter; adapting classroom instruction to differences in capacity; supervised study; laboratory methods.

Education 331. Principles of Education.

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

Education 332. High School Problems.

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

Education 333. Observation and Practice.

A study of principles of teaching, observation of class work, con-

struction of lesson plans, and teaching under supervision in the Lubbock public schools.

Prerequisite: Junior or senior standing or consent of instructor.

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

Education 337. The Teacher's Technique.

A study of best practices and current theory relating to classroom work. The principles underlying the technique of instruction and its application to schoolroom procedure will be pointed out; means for securing proficiency in the technique of instruction will be discussed.

Education 338. Education in Texas.

The history and development of education in Texas under Spain, Mexico, the Republic, and the State. A discussion of present practices, including present school laws and administrative procedures.

Education 339. Every Teacher's Problems.

An enumeration and discussion of the problems that confront the teacher in the schoolroom with light of guiding principles for their solution. This will also include individual and social as well as professional problems that are common to present-day teachers.

Education 431. The Elementary Curriculum.

A determination of the principles underlying the different subjects included in the present elementary curriculum. An examination of the recent investigations concerning the different studies together with a criticism of existing material and methods.

Education 432. Technique of Elementary Education.

A critical discussion of present methods with an evaluation of each in the light of current educational thought.

Education 433. The Improvement of Elementary Education.

A study of present tendencies and a critical evaluation of the elementary school with historical and empirical suggestions for its improvement.

Education 434. Education in the United States.

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.

Prerequisite: Education 232.

Education 435. The Curriculum.

The problems of curriculum reconstruction in the lights of recent investigations. A detailed study of the fundamental bases of the

curriculum. The relation of curricular and extra-curricular activities.

Prerequisite: Senior standing or consent of instructor.

Education 436. Public School Administration.

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

Prerequisite: Senior standing or consent of instructor.

PSYCHOLOGY.

Psychology 130. Child Psychology.

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

Psychology 230. General Psychology.

Lectures, recitations, and demonstration illustrating the principles of general psychology.

Prerequisite: Sophomore standing.

Psychology 231. Educational Psychology.

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

Psychology 330. Advanced Psychology.

A study of the perceptive process; emotion; ideas and image; ideation and conception; feeling and volition.

Prerequisite: Education 230 or Education 231.

ENGLISH.

English 131, 132, 133 is the basic course in the Department of English and is prerequisite to all other courses.

English 231, 232, 233, with slight exceptions as indicated herein, is prerequisite to all advanced courses in literature.

For the student who majors in English, five full courses are required. Of these, the first two must be English 131, 132, 133, and English 231, 232, 233. Moreover, the student majoring in English may minor in any other branch or branches of the School of Liberal Arts, or, in special cases, in certain branches of the other Schools of the College. In any case, the minors are to be chosen subject to the approval of the Department of English.

The courses herein specified will be given in the year 1926-1927 ac-

according to the needs and demands of the students registered in the Department. For a course to be offered, at least ten persons should, during the term preceding the one in which it is to be given, indicate their desire for taking such a course. Other advanced courses will be added commensurate with the development of the College and of the Department.

English 131, 132, 133. Composition and Rhetoric.

Study and practice in the principles of effective expression in writing. English 131 deals with the sentence and the paragraph chiefly, together with such elementary aspects of usage as are involved in clear and forceful expression. English 132 deals mostly with the whole composition in types of exposition and argumentation. English 133 deals chiefly with description and narration. Readings in fiction and other types of literature are required.

Prescribed for all freshmen.

English 134, 135, 136. Journalism.

An orientation course in the types of writing with which the student is in most immediate contact in his daily life—the newspaper, the magazine, and the book. The course is designed to enable the student to evaluate the products of the contemporary press in the light of practical use and aesthetic merit. The work of the course involves considerable reading, analysis, interpretation, and practice in writing. An elective course intended primarily for students who are looking forward to work in journalism or who have a literary bent.

Prerequisite: Two-thirds of English 131, 132, 133 with a grade of at least B, or all of English 131, 132, 133 with a grade of at least C.

English 137. Advanced Argumentation and Debate.

Designed especially for students emphasizing public speaking in their work. This course is elective and may be substituted for English 132 by the student who has made B in English 131, though English 132 is a very desirable preparation for the course. Strongly recommended for students taking part in intercollegiate debating.

English 231, 232, 233. English and American Masterpieces.

English 231 will deal with the period of English literature from Chaucer to Burns; English 232, with the period from Burns to Browning; and English 233, with American masterpieces, chiefly poems, of the nineteenth century. While the historical and social backgrounds, together with other phases involved in the evolution of the literature, will be kept before the student, the emphasis in the class study will be upon the aesthetic aspects of the selected masterpieces. Required of all sophomores in the College of Liberal Arts and prerequisite to most of the advanced courses in literature.

Prerequisite: English 131, 132, 133.

English 236. The Literature of the Bible.

An introductory course dealing with the various literary aspects and types of the English Bible. The approach to the study is purely

aesthetic, designed to open up to the student some of the literary values of this great storehouse of literature.

Prerequisite: English 131, 132, 133 and one other full course (nine hours) in English, preferably literature.

English 331, 332. Modern English and American Poetry.

A rather intensive study of some of the most prominent contemporary poets in England and America, with readings and individual studies by members of the class in other contemporary poets not quite so prominent. Among the English poets studied are Masfield, Gibson, Watson, De la Mare, Stephens, and others; among the American poets, Robinson, Frost, Masters, Lindsay, and others.

Prerequisite: English 131, 132, 133 and one other full course in English, preferably English 231, 232, 233.

English 333, 334, 335. American Short Story, Drama, and Novel.

A study of these types of American literature written during the last century. While the emphasis will be on the literary product of the last fifty years, account will be taken of the earlier authors of these forms of writing.

Prerequisite: English 131, 132, 133 and one full course in literature, preferably English 231, 232, 233.

English 336. Advanced Composition.

A course designed chiefly for students who desire advanced work of a creative nature. Much reading, literary interpretation, and practice, with a view to developing skill towards creative writing in types in which students may be particularly interested.

Prerequisite: English 131, 132, 133, one full course in literature, and, preferably, English 134, 135, 136.

English 337, 338, 339. Survey of the Drama.

An orientation course in the drama as a type of literature from the time of the classical drama in Greece to the present. While the nucleus of the class study will be the English drama, supplementary reading and discussion will deal with Greek, Roman, and European drama.

Prerequisite: English 131, 132, 133 and English 231, 232, 233.

English 431. American Prose.

A study of the better prose (exclusive of fiction) produced in America since Irving. Some attention, in an introductory way, will be paid, however, to some of the prose of Colonial and Revolutionary times. The emphasis of the course will be chiefly on the prose of such writers as Thoreau, Emerson, Lowell, Howells, Whitman, Burroughs, and others.

Prerequisite: English 131, 132, 133 and English 231, 232, 233 or English 134, 135, 136.

English 432, 433. Shakespeare.

A study of ten or twelve of the major plays of Shakespeare. English 432 will deal with four of the greater tragedies and two of the comedies; English 433 will deal with four of the greater comedies and two or three of the histories. In each case an intensive study will be made of about two plays, and a more cursory study will be made of others in the groups chosen.

Prerequisite: English 131, 132, 133 and English 231, 232.

English 434. Milton.

An intensive study of *Paradise Lost*, with a more cursory study of *Paradise Regained* and *Samson Agonistes*.

Prerequisite: English 131, 132, 133 and English 231, 232, 233.

English 435. Dryden and Pope.

A study of the major poems of these two poets, with some supplementary reading in the lyrics and dramas of Dryden.

Prerequisite: English 131, 132, 133 and English 231, 232, 233.

English 436, 437. Romanticism.

A study of the greater English poets influenced by the general movement of romanticism during the half century from 1775-1825. The nucleus of the study in English 436 will be the poetry of Burns, Wordsworth, and Coleridge; the nucleus of the study in English 437 will be the poetry of Byron, Shelley, and Keats. Supplementary work will be required in the minor poets of the romantic period.

Prerequisite: English 131, 132, 133 and English 231, 232, 233.

English 438. Browning and Tennyson.

A study of the poetry of these two major poets of the Victorian Era. The emphasis, on alternating years, will be upon the principal works of one or the other of the poets.

Prerequisite: English 131, 132, 133 and one full course in literature, including English 232.

English 439. Modern Drama.

A study of the most representative works of the outstanding European and English dramatists since 1870.

Prerequisite: English 131, 132, 133 and English 231, 232. English 337, 338, 339 is also highly desirable as a prerequisite.

FRENCH.

French 131, 132, 133. For Beginners.

Fraser and Squair's French Grammar. An elementary reader and one or two easy texts. Ability to translate from French into English and vice versa, and to answer simple questions in French. Much attention given to correct pronunciation and the training of the ear.

Five hours a week, three hours credit.

French 231, 232, 233.

Composition and reading. Reading of various French texts, partly as outside reading reported on for contents only. Translation and conversation both stressed.

Prerequisite: French 131, 132, 133 or two years of high school French.

French 331, 332, 333.

Standard texts, partly as outside reading, reported on for contents only. Considerable work in oral and written composition. Stress laid on rapid reading.

Prerequisite: French 131, 132, 133 or four years of high school French.

(Offered in 1926-1927 if there is sufficient demand.)

GEOLOGY.

The courses in this department are arranged to meet the needs of students in the College of Liberal Arts, who desire work in geology for cultural purposes, or who wish to specialize in the science and become professional geologists, and students who desire purely technical training in geological engineering. For the latter class of students a course in geological engineering, embracing geological subjects offered in the department of geology and engineering subjects offered in the College of Engineering, has been arranged. Announcement of this course is included under the announcements of the College of Engineering.

Geology 141, 142, 143. General Geology.

A course 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. The first half of the year is devoted to a study of the present features of the earth and the processes which have brought the surface to its present state. The second half of the year is devoted to historical geology and treats of the past history of the earth and its inhabitants. Throughout the course emphasis is placed upon training in the scientific method of investigation. The laboratory work consists of training in the interpretation of topographic maps and geologic folios and work with minerals, rocks, fossils, and other geologic material.

Prerequisites: None.

Throughout the year. Three lectures and one laboratory period per week. Credit: One and one-third courses.

Geology 121, 122, 123. Principles of Geology.

A briefer course similar to Geology 141 intended for those who desire a knowledge of geology for cultural purposes only.

Prerequisites: None.

Throughout the year. Two lectures per week. Credit: Two-thirds course.

Geology 231, 232. Mineralogy.

A course in the principles of crystallography, followed by laboratory work on the methods of identification of minerals and lectures upon their occurrence and properties. Emphasis is placed upon methods of field identification by physical means, but the course also includes training in the methods of blowpipe analysis. It is the aim of the course to make the student thoroughly familiar with the principal minerals, especially those of economic importance.

Prerequisite: Geology 141 or Geology 121. Elementary chemistry a desirable prerequisite.

Two terms. One lecture and two laboratory periods per week. Credit: Two-thirds course.

Geology 233. Introductory Economic Geology.

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

Prerequisite: Geology 231.

One term. Three lectures a week. Credit: One-third course.

Geology 230. Field Geology.

An intensive course in the practical methods of geologic surveys and investigations given in the field during the summer. A camp is established in the field and the entire time is devoted to geologic work. A written report is prepared by the student after the return from the field.

Prerequisite: Geology 141 or Geology 121.

Summer. Length of course: One month. Credit: Two-thirds course.

Geology 337, 338, 339. Invertebrate Paleontology.

A study of the detailed structures, bases of classification, and geologic history of the various groups of invertebrates. The laboratory work is intended to familiarize the student with the principal "index fossils" of North America. The course includes training in the principles of geologic correlation by means of fossils.

Prerequisite: Geology 141 or Geology 121.

One lecture and two laboratory periods per week. Credit: One course.

(May not be offered in 1926-1927.)

Geology 334, 335, 336. Petrology.

A study of rocks and rock making minerals, their characteristics, and methods of field identification, followed by a study of the optical properties of crystals and their application to the identification of minerals and rocks in thin sections. Laboratory training in the use of the petrographic microscope and the technique of petrographic methods. Includes training in the petrology of sedimentary rocks and the practical application of petrographic methods in economic work, especially to problems of petroleum geology.

Prerequisite: A course in general geology and Geology 231.

One lecture and two laboratory periods per week. Credit: One course.

Geology 332, 333. Engineering Geology.

A course in general geology adapted to the special needs of engineers.

Prerequisites: None.

Three lectures a week. Two terms. Credit: Two-thirds course.

Geology 434. Ore Deposits.

An advanced course in economic geology devoted to problems relating to deposits of metallic minerals.

Prerequisites: A course in general geology, Mineralogy 231, Petrology 334.

One term. Three lectures a week. Credit: One-third course.

(Not offered in 1926-27.)

Geology 435, 436. Geology of Petroleum.

A course for students expecting to engage in the exploration and development of oil fields. Includes a study of the problems of origin and accumulation of oil deposits, assembling and interpretation of data bearing on problems of petroleum geology, and special consideration of problems peculiar to certain fields.

Prerequisites: General geology, Ore Deposits 434.

Three lectures a week. Two terms. Credit: Two-thirds course.

(Not offered in 1926-27.)

Geology 431, 432, 433. Advanced Physical, Structural and Historical Geology.

Problems of advanced geology studied by means of lectures and research in the original literature.

Prerequisites: General geology, Mineralogy 231.

Three lectures a week. Throughout the year. Credit: One course.

(Not offered in 1926-27.)

Laboratory fees for courses in Geology:

Geology 141, 142, 143	\$1.00 per term
Geology 231, 232, 233	1.50 per term
Geology 334, 335, 336	2.00 per term
Geology 337, 338, 339	1.00 per term

GERMAN.

German 131, 132, 133. For Beginners.

Vos' Essentials of German Grammar. About 250 pages of easy reading, chiefly prose. Ability to translate from German into English and vice versa, and to answer simple questions in German.

Five hours a week, three hours credit.

German 231, 232, 233.

Composition and reading. Reading of various German texts, partly as outside reading reported on for contents only. Translation and conversation both stressed.

Prerequisite: German 131, 132, 133 or two years of high school German.

German 331, 332, 333.

Standard texts, partly as outside reading, reported on for contents only. Considerable work in oral and written composition. Stress laid on rapid reading.

Prerequisite: German 231, 232, 233 or four years of high school German.

(Not offered in 1926-1927.)

GOVERNMENT.

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

Government 131, 132, 133. American Government.

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.

Government 231, 232, 233. Local Government and Political Parties.

The first part of this course deals primarily with Municipal Government and Administration, with special reference to Texas cities. The second part of the course takes up a survey of the origin and development of political parties in the United States, followed by a study of party functions, organization, campaign methods, elections, and party finance.

Prerequisite: American Government.

Government 221. Parliamentary Law and Practice.

A study of the recognized rules and practices governing the action of deliberative bodies.

Open to all students except freshmen.

Government 321, 322, 323. American Government.

For juniors and seniors who have not had Government 131, 132, 133.

Government 331, 332, 333. Comparative Government and International Law.

An analysis and comparison of the leading European governmental systems, followed by a study of the fundamental principles of International Law, with special emphasis upon American interpretations and contributions.

Prerequisite: American Government or one college course in History.

Government 320. Business Law.

This course is designed especially for professional students who desire some knowledge of law as it relates to ordinary business transactions.

Open to juniors and seniors.

Government 421, 422, 423. American Political Ideas.

A study of the lives and ideas of the leading political thinkers of the United States. A representative number will be selected from each period in American History, from the Colonial period to the present.

Prerequisite: American Government or American History.

Government 430. The American Constitution.

A study of the interpretation of the Constitution of the United States, based principally upon Supreme Court decisions. The leading cases in American Constitutional Law will be analyzed.

Prerequisite: American Government or American History.

Government 400. Readings in Government.

Registration for this course may be at any time upon approval of the head of the department. It is designed to take care of individual student needs. The number of credit hours will be determined by the amount, nature, and character of the work done.

HISTORY.

History 131, 132, 133. History of Civilization.

A survey or orientation course, basic for further work in History and the other social sciences.

History 231, 232, 233. History of the United States.

From the discovery of America to the present time.

History 234, 235, 236. History of England and the British Empire.

Social, economic, political, and cultural development of Britain.

History 237, 238, 239. History of Latin America.

Discovery, colonization, wars of independence, of Spanish and Portuguese America, with the social, economic, political, and cultural developments.

Knowledge of Spanish is required.

History 331, 332, 333. History of Texas.

This includes the whole period under six flags.

Knowledge of Spanish is required.

History 334, 335, 336. History of Europe.

Through the Reformation Period, including ancient Greece and Rome, the Middle Ages, and the Renaissance.

Knowledge of Latin is required.

History 337, 338, 339. History of Europe.

Since the Reformation, including the French Revolution, the Napoleonic Era, and the World War.

Knowledge of French and German is desirable.

History 431, 432, 433. History of the United States During the Colonial Period.

European background, discovery, exploration, colonization, culture, development of local government, movements toward union.

History 434, 435, 436. History of the United States from the American Revolution to 1850.

The American Revolution, the formation and adoption of the Constitution, the expansion of the Southwest and the Far West, the Monroe Doctrine.

History 437, 438, 439. History of the United States from 1850 to the Present.

The Civil War and Reconstruction, the new Nationalism, the World War and the aftermath.

LATIN.

Latin 131, 132, 133. Cicero and Vergil.

Cicero: The Orations against Catiline and the Oration for the Manilian Law. *Vergil*: First, second, and fourth books, with selections from the third and fifth books.

Prerequisite for 131, 132: Two units of high school Latin.

Prerequisite for 133: Three units of high school Latin or their equivalent.

Latin 231, 232, 233. Cicero, Terence and Horace.

The *de Senectute* and *de Amicitia* of Cicero; the *Phormio* of Terence and the Odes and Epodes of Horace.

Prerequisite: Latin 131, 132, 133 or four units of high school Latin.

Latin 331, 332, 333. Pliny, Tacitus and Catullus.

The Letters of Pliny; *Germania* and *Agricola*, or *Annals* of Tacitus and the poems of Catullus.

Prerequisite: Latin 231, 232, 233, or their equivalent.

Latin 431, 432. Latin Comedy.

Selected plays of Plautus and Terence.

Prerequisite: Latin 231, 232, 233, or their equivalent.

Latin 433. Private Life of the Romans.

Open to all students whether they have enrolled in the Latin department or not.

No Latin prerequisite

MATHEMATICS.

The Department of Mathematics offers courses for undergraduates in the different schools of the College. Numbers preceded by L designate courses intended primarily for students in the School of Liberal Arts; by E, for students in the School of Engineering; by A, for students in the School of Agriculture; and by H, for students in the School of Home Economics. A student matriculated in one school may register for a course offered for a different school only with the consent of the dean of his school and of the instructor in charge of the course.

School of Liberal Arts.

A candidate for the degree of Bachelor of Arts must take one full year of mathematics selected from L131, L132, L133, or L134, L135, L136, or L137, L138, L139; except that students who enter with three or more units of high school mathematics may fulfill the requirements by taking L134 and L135 only. L137, L138, L139 is especially recommended for those who are preparing to enter business or to study law.

Courses numbered above 300 are considered advanced courses.

A minor in mathematics consists of one or two advanced courses. Students who plan to teach mathematics in high school should at least minor in mathematics, since the department cannot recommend as teachers those who have taken less than that number of courses. Students majoring in physics or chemistry are strongly recommended to minor in mathematics.

A major in mathematics consists of three advanced courses. Other advanced courses may be arranged to suit the needs of particular groups of students.

School of Engineering.

All engineering students are required to take two years of college mathematics. In the freshman year, students should take E130 and E131 in the fall term, E132 in the winter term, and E133 in the spring term. In the sophomore year, students should take E231, E232, E233 in the order listed. Students will not be permitted to take sophomore courses in mathematics until the freshman courses in mathematics have been satisfactorily completed.

School of Agriculture.

All students in the School of Agriculture must take A131 in the spring term of the freshman year and A231 in the spring term of the sophomore year.

School of Home Economics.

All Home Economics students must take H131 in the fall term and H132 in the winter term of the freshman year.

Mathematics L131, L132, L133. College Algebra and Trigonometry.

Mathematics L134, L135, L136. Introduction to Mathematical Analysis.

Algebra, trigonometry, together with certain fundamental notions of analytic geometry and calculus.

Mathematics L137, L138, L139. Mathematics of Finance.

This course begins with a term of algebra. The remainder of the course deals with such topics as interest, annuities, amortization, sinking funds, depreciation, value of bonds, building and loan associations.

Mathematics E100. Solid Geometry.

Required as an extra study of freshmen in the School of Engineering who do not present solid geometry for admission.

Mathematics E130. Trigonometry.

Trigonometric functions of angles, logarithms, solution of triangles, circular measure.

Mathematics E131, E132. College Algebra.

A general review of elementary algebra, quadratic equations, functions, graphs, permutations and combinations, determinants, progressions, elementary theory of equations.

Mathematics E133. Introduction to Analytic Geometry.

Cartesian coordinates, curve plotting, the analytic geometry of the straight line and of the circle, and polar coordinates.

Mathematics A131. Mathematics for Students of Agriculture.

Review of secondary mathematics, logarithms, elementary land measurement, mathematics of physics.

Mathematics H131, H132. Elementary Analysis.

The course will consist of selected topics from arithmetic, algebra, geometry, trigonometry, etc., with special applications to problems arising in the courses in Home Economics.

Mathematics L230. The Teaching of Mathematics.

A critical examination of the subject matter of secondary mathematics, and the best practice in the light of recent educational ideas. The aim is to give the student a point of view immediately applicable in the classroom in existing schools.

Prerequisite: Mathematics L133 or L136.

Mathematics L231, L232, L233. Plane and Solid Analytic Geometry.

Prerequisite: Mathematics L133.

Mathematics L234, L235, L236. Introduction to Mathematical Analysis (Second Course).

Continuation of Mathematics L134, L135, L136, with more work in the calculus.

Prerequisite: Mathematics L136.

Mathematics L237. Theory of Life Insurance.

Prerequisite: Mathematics L137, L138, L139.

Mathematics L238, L239. Mathematics of Statistics.

Frequency distributions, averages, measures of dispersion, interpolation, summation, graduation, curve fitting, random sampling, frequency curves, correlation, index numbers.

Prerequisite: Mathematics L137, L138, L139.

Mathematics E231. Analytic Geometry.

A continuation of Mathematics E133, treating the following topics: the parabola, ellipse, and hyperbola, the general equation of the second degree, translation and rotation of axes.

Mathematics E232, E233. First Course in Calculus.

The course begins with a review of certain essential features of algebra. The remainder of the time is devoted to differential and integral calculus.

Mathematics A231. Business Mathematics for Agriculture Students.

Compound interest and annuities, graphics, statistics, probability, and correlation.

Mathematics L331, L332, L333. First Course in Calculus.

Prerequisite: Mathematics L233.

Mathematics L334, L335, L336. Introduction to Higher Mathematics.

This course will include a brief sketch of the history of mathematics, and various topics in advanced college algebra, analytic geometry, and pure geometry. The course is intended to serve the double purpose of broadening the student's point of view with respect to the elementary subjects thus far studied and of rounding out his equipment for more advanced work.

Prerequisite: Mathematics L236.

Mathematics L337, L338, L339. Theoretical Mechanics.

A first course in Analytical Statics and Dynamics.

Prerequisite: Mathematics L236, Mathematics L333, or Mathematics E233.

Mathematics E331, E332. Advanced Calculus.

This covers the fundamental principles of the subject, with applications to plane curves, double integration, volumes, surfaces, moment of inertia, center of gravity, Fourier's Series, Hyperbolic Functions.

Prerequisite: Mathematics E233.

Mathematics E333. Differential Equations.

This course is designed principally for engineering students, and the aim is to cover thoroughly all those principles which will be needed later in the classroom and in the practice of various professions.

Prerequisite: Mathematics E332.

Mathematics L431, L432, L433. Second Course in Calculus.

This course includes elementary differential equations.

Prerequisite: Mathematics L236, or Mathematics L333.

Mathematics L434, L435, L436. Topics from Geometry.

Foundations of geometry, non-Euclidean geometry, modern analytic geometry.

Prerequisite: Mathematics L333, or Mathematics L336.

Mathematics E431, E432, E433. Advanced Applied Mathematics.

One or more of the following topics: Mechanics, Vector Analysis, Fourier's Series.

Prerequisite: Mathematics E333.

MUSIC.

Music 101. Choral Club.

For the study of performance of choral music. Mixed voices. Rehearsal: 4:00-5:30 Tuesdays, Room 302.

Music 102. College Orchestra.

Open to students of orchestral instruments. Must be able to read fairly well at sight.

Music 103. College Band.

For brass, woodwind and percussion players.

Music 134. Notation, Terms, Rhythmics, and Elementary Ear Training.

This course or its equivalent is prerequisite for Music 135 or Music 136.

Music 135. Elementary Harmony.

In three and four parts, using common chords and inversions; ear training in their recognition; harmonization of melodies.

Prerequisite: Music 134.

Music 136. Harmonic Counterpoint.

In two parts. A course in modern counterpoint in all species.

Prerequisite: Music 134. Music 135 not essential, but advisable.

Music 137. Musical History and Appreciation.

Composers of the classical period and their compositions.

(A non-technical course.)

Music 138. The Romantic Composers and Their Works.

Music 139. The Instruments of the Orchestra and Band.

Their place in the ensemble, their peculiarities, etc.

Music 239. Harmony (Continued).

Dissonances, elementary composition.

Prerequisite: Music 135. Music 136 recommended.

Music 232. Harmonic Counterpoint (Continued).

In three, four, and five parts. All species.

Prerequisite: Music 136. Music 231 advisable.

Music 233. Advanced Harmony and Composition.

Prerequisite: Music 231. Music 232 recommended.

PHILOSOPHY.

Philosophy 231, 232, 233. Introduction to Philosophy.

Scientific method. Philosophical problems and systems.

Philosophy 234, 235, 236. Ethics.

Personal and social, with application to social problems of the day.

Philosophy 237, 238, 239. Logic.

Control of the reflective processes, correct reasoning, induction and deduction, fallacies, experimentation, investigation, verification.

Philosophy 331, 332, 333. History of Philosophy.

Development of philosophic thought from the beginning of Greek speculation to the present.

Philosophy 334, 335, 336. Aesthetics.

The philosophy of art and theories of beauty.

Philosophy 337, 338, 339. Philosophy of Religion.

The nature, development, and validity of religion, with a comparative study of religions.

PHYSICAL EDUCATION FOR WOMEN.

Every woman student is required to take Physical Education the first two years of her college course, unless excused by the College authorities.

Each student is given a medical examination at the beginning of each year. Excuse from Physical Education is granted in case of physical disability. Those who are unable to take regular work are given special work.

The aim of the Physical Education work is to maintain general health and to provide activities that are physically wholesome.

A gymnasium fee of one dollar per year is required.

COURSES.

Physical Education 101. First-Year Physical Education for Women.

Gymnastics, marching, games, and folk dances. Health lectures included in this course. Two hours a week.

Physical Education 201. Advanced Gymnastics, Elementary Nutrition, and Playground Supervision.

Prerequisite: Physical Education 101.

Physical Education 301. Natural Dancing.

Prerequisite: Physical Education 101 and Physical Education 201.

Sports Offered Under Woman's Athletic Association: Basketball, baseball, tennis, hiking, swimming, volley ball, and horseback riding.

PHYSICAL EDUCATION FOR MEN.

MILITARY TRAINING.

Two years of basic training are offered. The first year covers infantry, close order drill, and ceremonies, both in theory and practice. The second year covers infantry, close order drill, and ceremonies in practice, and in addition takes up theory and practice in map reading and map making. Uniforms will be worn. They are handled through the College Bookstore.

PHYSICAL TRAINING.

Two courses in physical training or military training are prerequisite to graduation. Corrective exercises, calisthenics, games, and contests are used throughout in the courses. Gymnasium suits and shoes are to be provided by the student.

PHYSICS.

Physics 141, 142, 143. General Physics.

Two lectures, one quiz, and two laboratory hours per week throughout the year.

For pre-medical and arts and science students.

This course consists of a general survey of the entire field of physics. It is 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 on which the modern application of science to human activities are based. The lectures consist of numerous demonstrations, logical development of fundamental principles, and development of simple formula. In the quiz sections a number of simple problems are solved. In the laboratory the student becomes acquainted with the manipulation of ordinary physical apparatus and learns how to make quantitative determinations. The laboratory period is two hours long. In that time the student sets up his apparatus, makes and records his measurements, constructs his graphs, and makes at least part of his computations. At his room he completes the computations and writes a complete report of the experiment. This report is submitted at the beginning of the next period.

Laboratory fee: \$1.50 per term.

Required of all pre-medical students.

Physics 144, 145. Mechanics and Heat.

Two lectures, one quiz, and two laboratory hours per week throughout the Winter and Spring terms.

The lectures consist of demonstrations, logical development of theory, development of formula, and solution of typical problems. The laboratory measurements are strictly quantitative. The aim of the laboratory work is to train the pupil in the manipulation of laboratory apparatus and to verify, by actual experiment, the fundamental laws of physics. Neither theory nor practice is neglected as the aim of this course is to give the student thorough training in fundamental physical principles.

Laboratory fee: \$2.00 per term.

Prerequisite: Trigonometry.

Required of all Engineering students.

Physics 241, 242, 243. Electricity and Magnetism, Sound and Light.

This is a continuation of Physics 144, 145, which is a prerequisite.

The students are given thorough training in the fundamental principles of electricity and magnetism, sound and light. In the lecture demonstrations many interesting as well as instructive phenomena are shown. Fundamental formula are developed. The student is expected to solve a large number of problems involving the practical application of the physical principles studied. In the laboratory the student learns how to connect up electrical apparatus and make exact measurements. He also performs experiments in sound and light. A high grade of work is required.

The course consists of two lectures, one quiz, and two laboratory hours per week.

Laboratory fee: \$2.00 per term.

Required of all Engineering students.

Physics 244, 245. Agricultural Physics.

Three lectures and recitations and two laboratory hours per week throughout the fall and winter terms.

This is a specialized course to meet the needs of students in the School of Agriculture. The lectures consist of demonstrations and the development of fundamental principles. Emphasis is placed on those phases of mechanics, heat, and current electricity that are of especial interest to Agricultural students.

Laboratory fee: \$2.00 per term.

Required of all students taking regular courses in Agriculture.

Physics 321. Laboratory Physics.

Fall term. Two periods of two hours each per week.

The experiments are selected to meet the needs of those students who require more laboratory work than is given in the general courses in Physics. Instruments of precision are used and the students are required to make measurements with a considerable degree of accuracy.

Laboratory fee: \$4.00.

Physics 324, 325, 326. Problems in Physics.

Two recitations per week throughout the year.

This course is intended to prepare those students who have taken a course in General Physics for more advanced work. It is of especial value to those students who expect to teach physics in high school.

Prerequisite: Physics 141, 142, 143, or Engineering Physics.

No laboratory fee required.

Physics 331, 332. Electrical Measurements.

Fall and winter terms.

Primarily for Junior Engineers.

This course is designed to include both theory and laboratory practice. It consists of calibrations of ballistic and current galvanometers; methods for measuring low, high, and ordinary resistances, and resistances of cells and electrolytes; methods for the measurement of currents and potentials; hysteresis and magnetization determinations; capacity measurements and comparisons; methods for measuring self and mutual inductances; use of the potentiometer in the study of electric lamps and a study of pyrometry. The course concludes with a brief consideration of the theory of electron tubes, with a few measurements of amplification factors, tube resistances, and tube characteristics.

Prerequisites: Physics 144, 145 and Physics 241, 242, 243 or the equivalent and integral calculus.

Laboratory fee: \$2.50 per term.

Physics 341, 342. Household Physics.

For students of Home Economics.

Three lectures and recitations and two laboratory hours per week throughout the fall and winter terms.

This course deals largely with the application of the principles of heat and electricity to the kitchen and to the household in general, although some attention is given to the mechanics of the home as well as to acoustics and illumination. A study is made of ventilation and the economical use of heat in cooking and heating the house. Emphasis is placed on the fundamental principles involved in the use of the electric range, toaster, percolator, sterilizer, pressure cooker, fireless cooker, and flatiron, and on motors for the washing machine, vacuum cleaner, sewing machine, and churn. The cost of heating and cooking by electricity as compared with various types of fuels is thoroughly investigated.

Laboratory fee: \$2.00 per term.

Physics 343. Radio Communication.

This course consists of a brief survey of the history of radio telegraphy and telephony with a study of the theories relating to the generation and detection of electromagnetic waves, and the principles used in the different types of receiving sets. The laboratory work consists of battery testing; resistance, inductance, and capacity measurements and comparisons; finding characteristics of tubes and crystals; measurements of antenna constants; use and calibration of wave meters; and the construction of receiving, amplifying, and oscillating circuits.

Laboratory fee: \$2.50.

Physics 344. Heat.

Fall term.

In this course the principles of heat are taken up in a much more advanced way than in Physics 145. The mathematical theory of heat conduction and radiation is developed in a very elementary way. Modern methods of measuring temperature are studied, and the kinetic theory of matter and elementary thermodynamics are taken up.

Three lectures and recitations and two laboratory hours per week.

Prerequisites: Physics 144, 145 and Physics 241, 242, 243, or the equivalent and integral calculus.

Laboratory fee: \$2.00.

Physics 443. Elementary Electron Theory.

Spring term.

This course consists of a study of the historical development of the modern theories of the electron. Starting with the discovery of the electron in the vacuum tube, a study is made of the influence upon the development of the electron theory by such startling discoveries as radioactivity, X-rays, the photo-electric effect, and ionization and radiation potentials, together with the rise of the quantum theory, the Bohr theory, and the Compton effect.

Prerequisites: Physics 331, 332 or Physics 343 or the equivalent.

Physics 444. Light.

Fall term.

This course consists of a study of light from both the geometrical and physical points of view. A study is made of lenses, prisms, mirrors, and such optical instruments as the microscope, telescope, spectroscope, polarimeter, refractometer, interferometer, and spectrophotometer. The theory of diffraction is gone into at some length. Spectrum analysis and polarization are studied from the theoretical and commercial points of view.

Prerequisites: Physics 144, 145 and Physics 241, 242, 243 or the equivalent and integral calculus.

Laboratory fee: \$2.00.

PUBLIC SPEAKING AND EXPRESSION.

Public Speaking 131, 132.

The purpose of this course is to give practical training in public speaking. Foundation course in delivery.

Text: *Public Speaking*, James Winans; *Psychology of Public Speaking*, Walter Dill Scott.

Public Speaking 133. Argumentation and Debate.

A study of practical argumentation, analysis of model speeches of argument. Analysis, evidences, proof, and refutation. Classroom debates.

Public Speaking 231, 232, 233.

Short talks on subjects of interest to the student with written outlines and occasional themes. During the second and third terms the

emphasis will be on group discussions of contemporary affairs with attention to sources of news and evaluation of evidence.

Prerequisite: Public Speaking 131 or special permission of instructor.

Text: *Rhetoric of Oratory*, Edwin Du Bois Shurter; *Psychology of Public Speaking*, Walter D. Scott, supplemented by a study of the history of oratory.

Public Speaking 331, 332, 333.

Preparation and delivery of lectures and addresses adapted to selected audiences and occasions. Study and analysis of masterpieces of oratory from the point of view of composition. Each student will be required to prepare and deliver at least one twenty-minute complete address involving a considerable amount of original research.

Prerequisite: Public Speaking 231, or special permission of the instructor.

Expression 131, 132, 133. Private and Class Work.

This course includes the study of voice and harmonics; story telling and oral interpretation of the short story and type selections of dramatic literature.

Text: *Art of Speech and Deportment*, Anna Morgan.

Expression 231, 232, 233.

This course is a continuation of Expression 131. Advanced interpretation. A study of the cutting of books and plays for presentation.

Text: *Art of Speech and Deportment*, Anna Morgan; *Foundation of Expression*, Curry. Supplementary reading required.

SPANISH.

Spanish 131, 132, 133.

A course for beginners. The work will consist of grammar, reading, and conversation. Five hours per week; three hours credit.

Spanish 131, 132. (Repeated in Winter and Spring terms.)

This course is primarily to take care of those students who enter school in January. Fall term failures will be admitted only with the consent of the department head.

Spanish 231, 232, 233. Grammar, Composition, Reading and Conversation.

Prerequisite: Spanish 131, 132, 133, or two years of accredited high school Spanish, or the equivalent thereof.

Spanish 331, 332, 333. Contemporary Literature.

An outline of Spanish literature from the beginning of the romantic movement to the present. Reading of representative novels, dramas, and lyrics. Collateral reading and free composition based on readings. Conversation. The course will be conducted as far as possible in Spanish.

Prerequisite: Spanish 131, 132, 133 and 231, 232, 233 or three years of accredited high school Spanish, or the equivalent thereof.

Spanish 431, 432, 433. The Modern Novel.

A study of the Nineteenth Century novel with special attention to the generation of 1898. Reading of novels representing the various tendencies and regions. Written reports. The course will be conducted as far as possible in Spanish.

Prerequisite: Spanish 331, 332, 333, or its equivalent, or the consent of the instructor.

SCHOOL OF ENGINEERING.

FACULTY.

PAUL W. HORN, A. M., LL. D.,
President.

WM. J. MILLER, E. E., S. M. E. E.,
Dean of Engineering and Professor of Electrical Engineering.

E. W. CAMP, B. S.,
Professor of Textile Engineering.

JAMES H. MURDOUGH, S. B.,
Associate Professor of Civil Engineering.

Associate Professor of Mechanical Engineering.

EDGAR SHELTON, B. S. in Arch.,
Associate Professor of Architecture and Drawing.

Assistant Professor of Drawing.

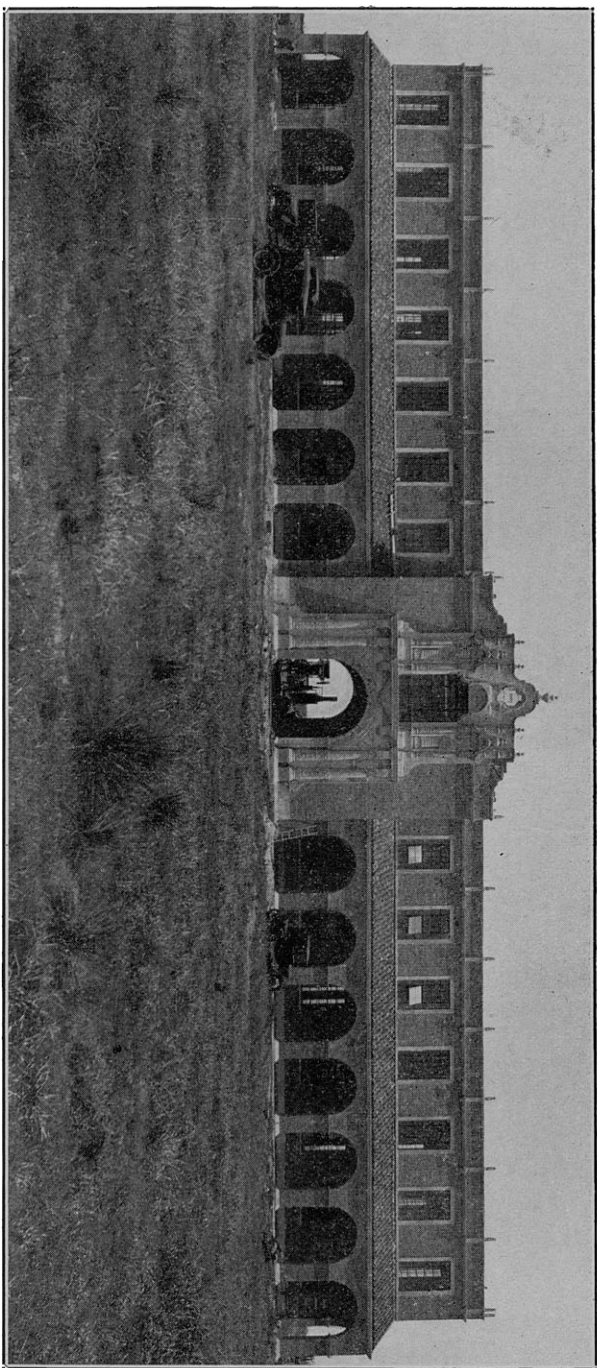
ROBERT D. CAMPBELL, B. S.,
Instructor of Drawing.

Instructor of Shopwork.

1. *History and Buildings.*—The importance of the School of Engineering in the Texas Technological College is stressed in the first section of the bill by which the Thirty-eighth Legislature established this institution. It is here pointed out that the commercial development of our State depends largely upon the opportunities for students to obtain thorough training in engineering and manufacturing fields.

In accordance with the importance of this School, the second largest building on the campus is the first unit of the Engineering group, with a floor area of approximately 27,000 square feet. This building was designed to eventually house only the Department of Textile Engineering, but for the first year it will serve for all work in the School of Engineering. The first unit of the Engineering Building proper is expected to be built in the near future.

2. *Purpose.*—The aim and purpose of the School of Engineering is to turn out men who are thoroughly grounded in the fundamentals of all engineering work and specialized in one particular line only to the extent that experience appears to demand as a minimum. In other



FRONT OF TEXTILE ENGINEERING BUILDING

words, the course of study in the School of Engineering is planned with the view of giving the student the essential basic training which he cannot get after graduation and leaving a large part of his specialization to his later professional employment. Experience has shown this type of training to produce the most successful engineers.

One of the prime essentials of an engineer is character. Recognizing this fact, the engineering instruction at all times aims to emphasize the qualities of honesty, loyalty, thoroughness, and industry. Engineering has taken its rightful place as one of the learned professions, and for this reason the course of study is designed to foster a spirit of culture and ethics. From the foregoing it may be summarized that the ideal product of the Engineering School is a logical thinker who is a man of character, culture, and professional attitude with capacity and love for work, and with a substantial knowledge of facts in his chosen field.

3. *Uniform Freshman Year.*—All Engineering students are required to take identical work throughout the Freshman year. This is done in order that the student may have the opportunity of becoming more familiar with the courses of instruction and the possibilities after graduation in the various branches of engineering before he chooses his professional course.

To aid the student in the proper selection of his professional work, lectures on the scope and opportunities of the various branches of the profession will be given by practicing engineers.

4. *Courses Offered in 1926-1927.*—All Freshman, Sophomore, and Junior courses in the School of Engineering will be offered during 1926-1927. Senior work will not be offered until 1927-1928.

5. *Field for Graduates.*—The field of engineering open to the engineering graduate is too broad, and the opportunities which it presents are too numerous to be presented in the space of this bulletin. Engineering has been defined as "The art of directing the great sources of power in nature for the use and convenience of man," which indicates employment in development of natural resources, manufacturing, and commerce.

The engineering student upon graduation usually spends a period of time in apprentice or subordinate positions, securing experience and preparing himself for the more important work of the executive, the designer, the consulting engineer, the teacher, or the operator, etc. For a number of years the demand for engineering graduates by the industries has considerably exceeded the supply.

An engineering training is becoming more and more recognized as a desirable preparation for a general commercial career, as it develops a mathematical and analytical type of mind, and demands systematic and methodical work. For this reason many engineering graduates eventually hold important executive positions.

6. *Admission.*—The requirements for admission to the School of Engineering are the same as those for the School of Liberal Arts, with the following exceptions:

- (1) Two credits must be offered in Algebra.
- (2) If Solid Geometry is not offered as an entrance credit, it must

be completed before the Sophomore year. No college credit is given for Solid Geometry.

- (3) Instead of a foreign language, two units may be presented in laboratory sciences or one unit in Science and one-half unit each in Solid Geometry and Trigonometry.

7. *Regulations.*—The regulations governing the students of the School of Liberal Arts apply to the students in the School of Engineering.

An exception is made in the matter of grading. Due to the nature of Engineering courses, the grade of incomplete is given only when a student is prevented from completing his work in a course by causes beyond his control.

Credit toward an Engineering degree will not be allowed for a term of a continuous course where the grade received is a D-, unless the grade received in the next term of the course is C or above.

8. *The Credit Hour.*—Three hours per week of student time, as indicated by the various courses, is called a "credit hour." Each recitation calls for two hours preparation, thus making each recitation per week equal to one credit hour. Each three-hour laboratory period per week, if self contained, is one credit hour. The middle digit of any course number indicates the credit hours.

REQUIREMENTS FOR DEGREES.

(All Engineering Students.)

The degree of Bachelor of Architecture and the degree of Bachelor of Science in Architectural, Civil, Electrical, Geological, *Mechanical, and Textile Engineering will be conferred upon students who satisfactorily complete the requirements of the respective courses as outlined on the following pages.

*Chemical Engineering is offered as a division of Mechanical Engineering and leads to the degree of Bachelor of Science in Mechanical Engineering (Chemical Engineering option).

ARCHITECTURE

THE SCHOOL OF ENGINEERING

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Fall Term			Winter Term			Spring Term		
Subject	Credit Hours		Subject	Credit Hours		Subject	Credit Hours	
Eng. 131 Composition	p. 58		Eng. 132 Composition	p. 58		Eng. 133 Composition	p. 58	3
Math. E130 Trigonometry	p. 68	3	Math. E132 Algebra	p. 68	3	Math. E133 Analytics	p. 68	3
Phys. 141 General	p. 72	3	Phys. 142 General	p. 72	4	Phys. 143 General	p. 72	4
Draw. 121 Engr. Drawing	p. 92	2	Arch. 131 Freehand Drawing	p. 90	2	Arch. 123 Freehand Drawing	p. 90	2
Arch. 121 Freehand Drawing	p. 90	2	Draw. 231 Desc. Geom.	p. 90	3	Arch. 132 Perspective	p. 90	3
Physical Training	p. 72	1	Physical Training	p. 72	1	Arch. 126 Elementary Design	p. 90	2
		18			19	Physical Training	p. 72	1
								18
Freshman Year			Sophomore Year					
Eng. 231 Literature	p. 58	3	Eng. 232 Literature	p. 58	3	Eng. 233 Literature	p. 58	3
Math. E231 Calculus	p. 69	3	Math. E232 Calculus	p. 69	3	Math. E233 Calculus	p. 69	3
Eco. 231 Principles	p. 53	3	Eco. 232 Principles	p. 53	3	Eco. 233 Principles	p. 53	3
Arch. 231 Elementary Design	p. 91	1	Arch. 232 Elementary Design	p. 91	1	Arch. 233 Elementary Design	p. 91	1
Arch. 211 Arch. History	p. 90	1	Arch. 212 Architectural History	p. 90	1	Arch. 213 Arch. History	p. 90	1
Arch. 214 Charcoal Drawing	p. 90	1	Arch. 215 Charcoal Drawing	p. 90	1	Arch. 216 Charcoal Drawing	p. 90	1
Physical Training	p. 72	1	Arch. 217 Water Color	p. 90	1	Arch. 218 Water Color	p. 90	1
		18	Arch. 222 Arch. Drawing	p. 91	2	Arch. 223 Arch. Drawing	p. 91	2
			Physical Training	p. 72	1	Physical Training	p. 72	1
					18			18
Junior Year			Senior Year					
Arch. 361 Intermediate Design	p. 91	6	Arch. 362 Intermediate Design	p. 91	6	Arch. 363 Intermediate Design	p. 91	6
Arch. 331 Elem. Construction	p. 91	3	Arch. 332 Elem. Construction	p. 91	3	Arch. 333 Elem. Construction	p. 91	3
C. E. 331 Applied Mechanics	p. 94	3	C. E. 332 Applied Mechanics	p. 94	3	C. E. 333 Applied Mechanics	p. 94	3
Arch. 321 Arch. History	p. 91	2	Arch. 322 Arch. History	p. 91	2	Arch. 323 Arch. History	p. 91	2
Arch. 324 Building Sanitation	p. 91	2	Arch. 325 Building Sanitation	p. 91	2	Arch. 326 Building Sanitation	p. 91	2
Arch. 311 Life Drawing	p. 91	1	Arch. 312 Life Drawing	p. 91	1	Arch. 313 Life Drawing	p. 91	1
Arch. 314 Water Color Rend.	p. 91	1	Arch. 315 Water Color Rend.	p. 91	1	Arch. 316 Water Color Rend.	p. 91	1
		18			18			18
Arch. 461 Adv. Arch. Design	p. 92	6	Arch. 462 Adv. Arch. Design	p. 92	6	Arch. 463 Adv. Arch. Design	p. 92	6
Arch. 431 Adv. Construction	p. 92	3	Arch. 432 Adv. Construction	p. 92	3	Arch. 433 Adv. Construction	p. 92	3
Arch. 421 Arch. Rendering	p. 91	2	Arch. 422 Arch. Rendering	p. 91	2	Arch. 423 Arch. Rendering	p. 91	2
Arch. 411 Arch. History	p. 91	1	Arch. 412 Arch. History	p. 91	1	Arch. 413 Arch. History	p. 91	1
Arch. 414 History of Art	p. 91	1	Arch. 415 History of Art	p. 91	1	Arch. 416 History of Art	p. 91	1
Arch. 417 Specifications	p. 92	1	Arch. 418 Specifications	p. 92	1	Arch. 419 Specifications	p. 92	1
A. E. 411 Business Practice	p. 92	3	A. E. 412 Business Practice	p. 92	3	A. E. 413 Business Practice	p. 92	3
Elective		18	Elective		18	Elective		18

UNIFORM FRESHMAN YEAR
Architectural, Civil, Electrical, Geological, Mechanical, and Textile Engineering

Fall Term		Winter Term		Spring Term	
Subject	Credit Hours	Subject	Credit Hours	Subject	Credit Hours
Eng. 131	p. 58	Eng. 132	p. 58	Eng. 133	p. 58
Chem. 141	p. 49	Chem. 142	p. 49	Chem. 143	p. 48
Math. E130	p. 68	Math. E132	p. 68	Math. E133	p. 68
Math. E131	p. 68	Phys. 144	p. 73	Phys. 145	p. 73
Draw. 121	p. 92	Draw. 122	p. 92	Draw. 123	p. 92
Physical Training	p. 72	Physical Training	p. 72	Physical Training	p. 72
	1		1		1
	16		17		17

ARCHITECTURAL ENGINEERING

Fall Term			Winter Term			Spring Term		
Subject	Credit Hours		Subject	Credit Hours		Subject	Credit Hours	
Eng. 231	3	58	Eng. 232	3	58	Eng. 233	3	58
Phys. 241	4	73	Phys. 242	4	73	Phys. 243	4	73
Math. E231	3	69	Math. E232	3	69	Math. E233	3	69
Draw. 231	3	92	Arch. 131	3	90	Arch. 132	3	90
Arch. 211	1	90	Arch. 212	1	90	Arch. 213	1	90
Arch. 221	2	91	Arch. 222	2	91	Arch. 223	2	91
Arch. 121	1	90	Arch. 122	1	90	Arch. 123	1	90
Physical Training	1	72	Physical Training	1	72	Physical Training	1	72
	19			19			19	
			Sophomore Year					
			Subject	Credit Hours		Subject	Credit Hours	
C. E. 331	3	94	Eng. 332	3	58	Eng. 333	3	94
Arch. 231	3	91	Phys. 332	3	73	Phys. 333	3	91
C. E. 320	3	93	Math. 332	3	69	Math. 333	3	93
Arch. 321	2	91	Arch. 131	3	90	Arch. 132	3	90
E. E. 334	3	96	Arch. 211	1	90	Arch. 213	1	90
Elective	3		Arch. 221	2	91	Arch. 223	2	91
	17		Arch. 121	1	90	Arch. 123	1	90
			Physical Training	1	72	Physical Training	1	72
				19			19	
			Junior Year					
			Subject	Credit Hours		Subject	Credit Hours	
C. E. 331	3	94	Eng. 332	3	58	Eng. 333	3	94
Arch. 231	3	91	Phys. 332	3	73	Phys. 333	3	91
C. E. 320	3	93	Math. 332	3	69	Math. 333	3	93
Arch. 321	2	91	Arch. 131	3	90	Arch. 132	3	90
E. E. 334	3	96	Arch. 211	1	90	Arch. 213	1	90
Elective	3		Arch. 221	2	91	Arch. 223	2	91
	17		Arch. 121	1	90	Arch. 123	1	90
			Physical Training	1	72	Physical Training	1	72
				19			19	
			Senior Year					
			Subject	Credit Hours		Subject	Credit Hours	
C. E. 431	3	95	Eng. 433	3	95	Eng. 433	3	95
Arch. 433	3	100	Phys. 434	3	95	Phys. 434	3	95
M. E. 431	3	53	Math. 433	3	100	Math. 433	3	95
A. E. 411	1	52	Arch. 231	3	91	Arch. 233	3	91
A. E. 414	1	92	Arch. 321	3	93	Arch. 323	3	93
Arch. 417	1	92	Arch. 412	1	92	Arch. 415	1	92
A. E. 421	2	92	Arch. 418	1	92	Arch. 416	1	92
A. E. 434	3	92	Arch. 422	2	92	Arch. 419	1	92
	17			18			17	

CIVIL ENGINEERING

Fall Term			Winter Term			Spring Term		
Subject	Credit	Hours	Subject	Credit	Hours	Subject	Credit	Hours
Math. E231	3	p. 69	Math. E232	3	p. 69	Math. E233	3	p. 69
Eng. 231	3	p. 58	Eng. 232	3	p. 58	Eng. 233	3	p. 58
C. E. 241	3	p. 93	C. E. 242	3	p. 93	C. E. 243	3	p. 93
Phys. 241	4	p. 73	Phys. 242	4	p. 73	Phys. 243	4	p. 73
Draw. 231	4	p. 92	Geol. 334	4	p. 62	Geol. 335	4	p. 62
	17			17			17	
Sophomore Year			Junior Year			Senior Year		
Math. E232	3	p. 69	Math. E332	3	p. 94	Math. E433	3	p. 95
Eng. 232	3	p. 58	Eng. 332	3	p. 69	Eng. 433	3	p. 95
C. E. 242	3	p. 93	C. E. 342	3	p. 94	C. E. 434	3	p. 95
Phys. 242	4	p. 73	Phys. 342	4	p. 94	Phys. 434	4	p. 95
Geol. 334	4	p. 62	Geol. 335	4	p. 96	Geol. 435	4	p. 95
	17			17			17	
Junior Year			Senior Year			Senior Year		
Math. E332	3	p. 94	Math. E433	3	p. 95	Math. E433	3	p. 95
Eng. 332	3	p. 69	Eng. 433	3	p. 95	Eng. 433	3	p. 95
C. E. 342	3	p. 94	C. E. 433	3	p. 95	C. E. 433	3	p. 95
Phys. 342	4	p. 73	Phys. 433	4	p. 95	Phys. 433	4	p. 95
Geol. 335	4	p. 62	Geol. 433	4	p. 95	Geol. 433	4	p. 95
	17			17			17	
Senior Year			Senior Year			Senior Year		
Math. E433	3	p. 95	Math. E433	3	p. 95	Math. E433	3	p. 95
Eng. 433	3	p. 95	Eng. 433	3	p. 95	Eng. 433	3	p. 95
C. E. 433	3	p. 95	C. E. 433	3	p. 95	C. E. 433	3	p. 95
Phys. 433	4	p. 95	Phys. 433	4	p. 95	Phys. 433	4	p. 95
Geol. 433	4	p. 95	Geol. 433	4	p. 95	Geol. 433	4	p. 95
	18			18			18	

ELECTRICAL ENGINEERING

Fall Term			Winter Term			Spring Term		
Subject	Credit Hours		Subject	Credit Hours		Subject	Credit Hours	
Eng. 231	3	p. 58	Eng. 232	3	p. 58	Eng. 233	3	p. 58
Phys. 241	3	p. 73	Phys. 242	3	p. 73	Phys. 243	3	p. 73
Math. E231	4	p. 69	Math. E232	4	p. 69	Math. E233	4	p. 69
C. E. 230	3	p. 93	M. E. 221	3	p. 98	M. E. 222	3	p. 98
Draw. 231	3	p. 92	Chem. 339	2	p. 50	Pub. Spk. 131	2	p. 75
M. E. 211	1	p. 98	M. E. 212	1	p. 98	E. E. 231	1	p. 96
Physical Training	1	p. 72	Physical Training	1	p. 72	Physical Training	1	p. 72
	18			17			19	
Junior Year			Senior Year					
Eng. 331	3	p. 96	Eng. 332	3	p. 96	Eng. 333	3	p. 96
Phys. 321	2	p. 96	Phys. 322	2	p. 96	Phys. 323	2	p. 96
Math. E331	3	p. 94	Math. E332	3	p. 94	Math. E333	3	p. 94
C. E. 331	3	p. 99	C. E. 332	3	p. 99	C. E. 333	3	p. 99
M. E. 334	3	p. 99	M. E. 335	3	p. 99	M. E. 336	3	p. 99
Math. E331	3	p. 69	Math. E332	3	p. 69	Math. E333	3	p. 69
C. E. 330	3	p. 94	C. E. 332	2	p. 99	C. E. 329	2	p. 99
M. E. 311	1	p. 98	M. E. 312	1	p. 98	M. E. 313	1	p. 98
Principles			Principles			Principles		
Laboratory			Laboratory			Laboratory		
Applied Mechanics			Applied Mechanics			Applied Mechanics		
Heat Engines			Heat Engines			Heat Engines		
Adv. Calculus			Adv. Calculus			Adv. Calculus		
Hydraulics			Hydraulics			Hydraulics		
Machine Shop			Machine Shop			Machine Shop		
	18			17			17	
Senior Year			Senior Year					
Eng. 431	3	p. 97	Eng. 432	3	p. 97	Eng. 433	3	p. 97
Phys. 421	2	p. 97	Phys. 422	2	p. 97	Phys. 423	2	p. 97
Math. E431	3	p. 97	Math. E432	3	p. 97	Math. E433	3	p. 97
C. E. 431	3	p. 53	C. E. 432	3	p. 53	C. E. 433	3	p. 53
Eco. 231	3	p. 74	Eco. 232	3	p. 74	Eco. 233	3	p. 74
Phys. 331	3	p. 95	Phys. 332	3	p. 95	Phys. 333	3	p. 95
C. E. 420	3	p. 95	C. E. 421	3	p. 95	C. E. 422	3	p. 95
Dynamics			Dynamics			Dynamics		
	19			18			17	

GEOLOGICAL ENGINEERING

Fall Term			Winter Term			Spring Term		
Subject		Credit Hours	Subject		Credit Hours	Subject		Credit Hours
Geol. 141	Fundamentals of Geol.	p. 61	Geol. 142	Fundamentals of Geol.	p. 61	Geol. 143	Fundamentals of Geol.	p. 61
Geol. 231	Determin. Mineralogy	p. 62	Geol. 232	Determin. Mineralogy	p. 62	Geol. 233	Elem. Econ. Geology	p. 62
Math. E231	Analytics	p. 69	Math. E232	Calculus	p. 69	Math. E233	Calculus	p. 62
Geol. 241	Plane Surveying	p. 93	Geol. 232	Literature	p. 58	Geol. 243	Plane Surveying	p. 93
C. E. 231	Literature	p. 58	C. E. 242	Surveying	p. 93	C. E. 233	Literature	p. 58
		17			17			17
			Sophomore Year			Summer		
Geol. 334	Optical Mineralogy	p. 62	Geol. 335	Optical Mineralogy	p. 62	Geol. 230	Field Course	p. 61
Geol. 337	Invert. Paleontology	p. 62	Geol. 338	Invert. Paleontology	p. 62			
Math. E331	Calculus	p. 69	Math. E332	Calculus	p. 69			
C. E. 331	Applied Mechanics	p. 94	C. E. 332	Applied Mechanics	p. 94			
C. E. 334	Surveying	p. 94	C. E. 312	Materials Lab.	p. 94			
		15			13			13
			Junior Year					
Geol. 431	Advanced Geology	p. 63	Geol. 432	Advanced Geology	p. 63	Geol. 433	Advanced Geology	p. 63
Geol. 434	Ore Deposits	p. 63	Geol. 435	Petroleum Geol.	p. 63	Geol. 436	Petroleum Geol.	p. 63
Eco. 231	Principles	p. 53	Eco. 232	Principles	p. 53	Eco. 233	Principles	p. 53
Pub. Spk. 131	Elements	p. 75	Eco. 320	Commercial Law	p. 55	M. E. 336	Thermodynamics	p. 99
Elective		15	Elective		14	Elective		15
			Senior Year					

MECHANICAL ENGINEERING

Fall Term			Winter Term			Spring Term		
Subject	Credit Hours		Subject	Credit Hours		Subject	Credit Hours	
Eng. 231	58	Literature	Eng. 232	58	Literature	Eng. 233	58	Literature
Phys. 241	p. 73	Elec. and Mag.	Phys. 242	p. 73	Elec. and Mag.	Phys. 243	p. 73	Sound and Light
Math. E231	p. 69	Analytics	Math. E232	p. 69	Calculus	Math. E233	p. 69	Calculus
C. E. 230	p. 93	Surveying	M. E. 221	p. 98	Mechanism	M. E. 222	p. 98	Mechanism
Dra. 231	p. 92	Descrip. Geom.	Chem. 339	p. 50	Power Plant	Pub. Spk. 131	p. 75	Elements
M. E. 211	p. 98	Wood Shop	M. E. 212	p. 98	Wood Shop	E. E. 231	p. 96	Principles
Physical Training	p. 72		Physical Training	p. 72		Physical Training	p. 72	
	18			17			19	
			Sophomore Year					
			Subject	Credit Hours				
			Eng. 332	58	Literature			
			Phys. 332	p. 73	Elec. and Mag.			
			Math. E332	p. 69	Calculus			
			M. E. 321	p. 98	Mechanism			
			Chem. 339	p. 50	Power Plant			
			M. E. 312	p. 98	Wood Shop			
			Physical Training	p. 72				
				18				
			Junior Year					
			Subject	Credit Hours				
			M. E. 332	58	Literature			
			E. E. 332	p. 73	Elec. and Mag.			
			E. E. 333	p. 69	Calculus			
			C. E. 331	p. 98	Mechanism			
			Eco. 332	p. 50	Power Plant			
			Math. E332	p. 98	Wood Shop			
			Physical Training	p. 72				
				18				
			Senior Year					
			Subject	Credit Hours				
			M. E. 431	58	Literature			
			E. E. 431	p. 73	Elec. and Mag.			
			C. E. 431	p. 69	Calculus			
			Eco. 431	p. 98	Mechanism			
			Math. E431	p. 50	Power Plant			
			M. E. 421	p. 98	Wood Shop			
			Physical Training	p. 72				
				18				
			Senior Year					
			Subject	Credit Hours				
			M. E. 432	58	Literature			
			E. E. 432	p. 73	Elec. and Mag.			
			C. E. 432	p. 69	Calculus			
			Eco. 432	p. 98	Mechanism			
			Math. E432	p. 50	Power Plant			
			M. E. 422	p. 98	Wood Shop			
			Physical Training	p. 72				
				18				
			Senior Year					
			Subject	Credit Hours				
			M. E. 433	58	Literature			
			E. E. 433	p. 73	Elec. and Mag.			
			C. E. 433	p. 69	Calculus			
			Eco. 433	p. 98	Mechanism			
			Math. E433	p. 50	Power Plant			
			M. E. 423	p. 98	Wood Shop			
			Physical Training	p. 72				
				18				
			Senior Year					
			Subject	Credit Hours				
			M. E. 434	58	Literature			
			E. E. 434	p. 73	Elec. and Mag.			
			C. E. 434	p. 69	Calculus			
			Eco. 434	p. 98	Mechanism			
			Math. E434	p. 50	Power Plant			
			M. E. 424	p. 98	Wood Shop			
			Physical Training	p. 72				
				18				
			Senior Year					
			Subject	Credit Hours				
			M. E. 435	58	Literature			
			E. E. 435	p. 73	Elec. and Mag.			
			C. E. 435	p. 69	Calculus			
			Eco. 435	p. 98	Mechanism			
			Math. E435	p. 50	Power Plant			
			M. E. 425	p. 98	Wood Shop			
			Physical Training	p. 72				
				18				
			Senior Year					
			Subject	Credit Hours				
			M. E. 436	58	Literature			
			E. E. 436	p. 73	Elec. and Mag.			
			C. E. 436	p. 69	Calculus			
			Eco. 436	p. 98	Mechanism			
			Math. E436	p. 50	Power Plant			
			M. E. 426	p. 98	Wood Shop			
			Physical Training	p. 72				
				18				
			Senior Year					
			Subject	Credit Hours				
			M. E. 437	58	Literature			
			E. E. 437	p. 73	Elec. and Mag.			
			C. E. 437	p. 69	Calculus			
			Eco. 437	p. 98	Mechanism			
			Math. E437	p. 50	Power Plant			
			M. E. 427	p. 98	Wood Shop			
			Physical Training	p. 72				
				18				
			Senior Year					
			Subject	Credit Hours				
			M. E. 438	58	Literature			
			E. E. 438	p. 73	Elec. and Mag.			
			C. E. 438	p. 69	Calculus			
			Eco. 438	p. 98	Mechanism			
			Math. E438	p. 50	Power Plant			
			M. E. 428	p. 98	Wood Shop			
			Physical Training	p. 72				
				18				
			Senior Year					
			Subject	Credit Hours				
			M. E. 439	58	Literature			
			E. E. 439	p. 73	Elec. and Mag.			
			C. E. 439	p. 69	Calculus			
			Eco. 439	p. 98	Mechanism			
			Math. E439	p. 50	Power Plant			
			M. E. 429	p. 98	Wood Shop			
			Physical Training	p. 72				
				18				
			Senior Year					
			Subject	Credit Hours				
			M. E. 440	58	Literature			
			E. E. 440	p. 73	Elec. and Mag.			
			C. E. 440	p. 69	Calculus			
			Eco. 440	p. 98	Mechanism			
			Math. E440	p. 50	Power Plant			
			M. E. 430	p. 98	Wood Shop			
			Physical Training	p. 72				
				18				
			Senior Year					
			Subject	Credit Hours				
			M. E. 441	58	Literature			
			E. E. 441	p. 73	Elec. and Mag.			
			C. E. 441	p. 69	Calculus			
			Eco. 441	p. 98	Mechanism			
			Math. E441	p. 50	Power Plant			
			M. E. 431	p. 98	Wood Shop			
			Physical Training	p. 72				
				18				
			Senior Year					
			Subject	Credit Hours				
			M. E. 442	58	Literature			
			E. E. 442	p. 73	Elec. and Mag.			
			C. E. 442	p. 69	Calculus			
			Eco. 442	p. 98	Mechanism			
			Math. E442	p. 50	Power Plant			
			M. E. 432	p. 98	Wood Shop			
			Physical Training	p. 72				
				18				
			Senior Year					
			Subject	Credit Hours				
			M. E. 443	58	Literature			
			E. E. 443	p. 73	Elec. and Mag.			
			C. E. 443	p. 69	Calculus			
			Eco. 443	p. 98	Mechanism			
			Math. E443	p. 50	Power Plant			
			M. E. 433	p. 98	Wood Shop			
			Physical Training	p. 72				
				18				
			Senior Year					
			Subject	Credit Hours				
			M. E. 444	58	Literature			
			E. E. 444	p. 73	Elec. and Mag.			
			C. E. 444	p. 69	Calculus			
			Eco. 444	p. 98	Mechanism			
			Math. E444	p. 50	Power Plant			
			M. E. 434	p. 98	Wood Shop			
			Physical Training	p. 72				
				18				
			Senior Year					
			Subject	Credit Hours				
			M. E. 445	58	Literature			
			E. E. 445	p. 73	Elec. and Mag.			
			C. E. 445	p. 69	Calculus			
			Eco. 445	p. 98	Mechanism			
			Math. E445	p. 50	Power Plant			
			M. E. 435	p. 98	Wood Shop			
			Physical Training	p. 72				
				18				
			Senior Year					
			Subject	Credit Hours				
			M. E. 446	58	Literature			
			E. E. 446	p. 73	Elec. and Mag.			
			C. E. 446	p. 69	Calculus			
			Eco. 446	p. 98	Mechanism			
			Math. E446	p. 50	Power Plant			
			M. E. 436	p. 98	Wood Shop			
			Physical Training	p. 72				
				18				
			Senior Year					
			Subject	Credit Hours				
			M. E. 447	58	Literature			
			E. E. 447	p. 73	Elec. and Mag.			
			C. E. 447	p. 69	Calculus			
			Eco. 447	p. 98	Mechanism			
			Math. E447	p. 50	Power Plant			
			M. E. 437	p. 98	Wood Shop			
			Physical Training	p. 72				
				18				
			Senior Year					
			Subject	Credit Hours				
			M. E. 448	58	Literature			
			E. E. 448	p. 73	Elec. and Mag.			
			C. E. 448	p. 69	Calculus			
			Eco. 448	p. 98	Mechanism			
			Math. E448	p. 50	Power Plant			
			M. E. 438	p. 98	Wood Shop			
			Physical Training	p. 72				
				18				
			Senior Year					
			Subject	Credit Hours				
			M. E. 449	58	Literature			
			E. E. 449	p. 73	Elec. and Mag.			
			C. E. 449	p. 69	Calculus			
			Eco. 449	p. 98	Mechanism			
			Math. E449	p. 50	Power Plant			
			M. E. 439	p. 98	Wood Shop			
			Physical Training	p. 72				
				18				
			Senior Year					
			Subject	Credit Hours				
			M. E. 450	58	Literature			
			E. E. 450	p. 73	Elec. and Mag.			
			C. E. 450	p. 69	Calculus			
			Eco. 450	p. 98	Mechanism			
			Math. E450	p. 50	Power Plant			
			M. E. 440	p. 98	Wood Shop			
			Physical Training	p. 72				
				18				
			Senior Year					
			Subject	Credit Hours				
			M. E. 451	58	Literature			
			E. E. 451	p. 73	Elec. and Mag.			
			C. E. 451	p. 69	Calculus			
			Eco. 451	p. 98	Mechanism			
			Math. E451	p. 50	Power Plant			
			M. E. 441	p. 98	Wood Shop			
			Physical Training	p. 72				
				18				
			Senior Year					
			Subject	Credit Hours				
			M. E. 452	58	Literature			
			E. E. 452	p. 73	Elec. and Mag.			
			C. E. 452	p. 69	Calculus			
			Eco. 452	p. 98	Mechanism			
			Math. E452	p. 50	Power Plant			
			M. E. 442	p. 98	Wood Shop			
			Physical Training	p. 72				
				18				
			Senior Year					
			Subject	Credit Hours				
			M. E. 453	58	Literature			
			E. E. 453	p. 73	Elec. and Mag.			
			C. E. 453	p. 69	Calculus			
			Eco. 453	p. 98	Mechanism			
			Math. E453	p. 50	Power Plant			
			M. E. 443	p. 98	Wood Shop			
			Physical Training	p. 72				
				18				
			Senior Year					
			Subject	Credit Hours				
			M. E. 454	58	Literature			
			E. E. 454	p. 73	Elec. and Mag.			
			C. E. 454	p. 69	Calculus			
			Eco. 454	p. 98	Mechanism			
			Math. E454	p. 50	Power Plant			
			M. E. 444	p. 98	Wood Shop			
			Physical Training	p. 72				
				18				
			Senior Year					
			Subject	Credit Hours				
			M. E. 455	58	Literature			
			E. E. 455	p. 73	Elec. and Mag.			
			C. E. 455	p. 69	Calculus			
			Eco. 455	p. 98	Mechanism			
			Math. E455	p. 50	Power Plant			
			M. E. 445	p. 98	Wood Shop			
			Physical Training	p. 72				
				18				
			Senior Year					
			Subject	Credit Hours				
			M. E. 456	58	Literature			
			E. E. 456	p. 73	Elec. and Mag.			
			C. E. 456	p. 69	Calculus			
			Eco. 456	p. 98	Mechanism			
			Math. E456	p. 50	Power Plant			
			M. E. 446	p. 98	Wood Shop			
			Physical Training	p. 72				
				18				
			Senior Year					
			Subject	Credit Hours				
			M. E. 457	58	Literature			
			E. E. 457	p. 73	Elec. and Mag.			
			C. E. 457	p. 69	Calculus			
			Eco. 457	p. 98	Mechanism			

TEXTILE ENGINEERING

Fall Term			Winter Term			Spring Term		
Subject	Credit Hours		Subject	Credit Hours		Subject	Credit Hours	
C. E. 230	3	93	Eng. 232	3	58	Draw. 231	3	92
E. E. 231	3	p. 58	Math. E232	3	p. 69	Math. E233	3	p. 69
Math. 231	3	p. 69	M. E. 221	3	p. 98	M. E. 222	3	p. 98
Phys. 241	4	p. 73	Phys. 222	4	p. 73	Phys. 223	4	p. 73
T. E. 221	2	p. 101	T. E. 223	2	p. 101	T. E. 223	2	p. 101
T. E. 231	3	p. 101	T. E. 232	3	p. 101	T. E. 233	3	p. 101
Fabric Design and Mfg.	1	p. 72	Fabric Design and Mfg.	1	p. 72	Fabric Design and Mfg.	1	p. 72
Physical Training	19		Physical Training	18		Physical Training	18	
			Sophomore Year					
C. E. 330	3	94	Eng. 332	3	94	C. E. 333	3	94
E. E. 331	3	p. 94	Math. 344	4	p. 50	Chem. 335	4	p. 50
Chem. 343	4	p. 50	M. E. 335	4	p. 96	Eng. 312	3	p. 96
Elements of Elec. Engr.	3	p. 96	E. E. 335	3	p. 96	Technical Writing	3
Yarn Manufacture	2	p. 102	Elem. of Elec. Engr.	2	p. 75	Elec. Engr. Lab.	3	p. 96
Fabric Design and Mfg.	3	p. 102	Elem. of Public Spk.	2	p. 102	Elem. of Elec. Engr.	2	p. 102
	18		Yarn Manufacture	3	p. 102	Yarn Manufacture	3	p. 102
			Fabric Design and Mfg.	19		Fabric Design and Mfg.	19	
			Junior Year					
C. E. 420	2	95	C. E. 332	3	94	C. E. 420	3	53
Economics	3	p. 53	Chem. 344	4	p. 50	Eco. 320	2	p. 65
Machine Shop	3	p. 98	Applied Mechanics	3	p. 94	Commercial Law	2	p. 99
Heat Engines	3	p. 99	Organic Chemistry	4	p. 50	Mech. Engr. Lab.	3	p. 99
Dyeing and Finish.	2	p. 102	Elec. Engr. Lab.	3	p. 96	Thermodynamics	2	p. 102
Yarn Manufacture	3	p. 102	Elem. of Elec. Engr.	2	p. 75	Dyeing and Finish.	3	p. 102
Fabric Design and Mfg.	4	p. 102	Elem. of Public Spk.	2	p. 102	Yarn Manufacture	4	p. 102
	19		Yarn Manufacture	3	p. 102	Fabric Design and Mfg.	19	
			Fabric Design and Mfg.	18				
			Senior Year					
C. E. 420	2	95	Eco. 232	3	53	Eco. 233	3	53
Economics	3	p. 53	M. E. 328	2	p. 99	Eco. 320	2	p. 65
Machine Shop	3	p. 98	Mech. Engr. Lab.	3	p. 99	Commercial Law	2	p. 99
Heat Engines	3	p. 99	Heat Engines	3	p. 99	Mech. Engr. Lab.	3	p. 99
Dyeing and Finish.	2	p. 102	Industrial Engr.	3	p. 100	Thermodynamics	2	p. 102
Yarn Manufacture	3	p. 102	Dyeing and Finish.	2	p. 102	Dyeing and Finish.	3	p. 102
Fabric Design and Mfg.	4	p. 102	Yarn Manufacture	3	p. 102	Yarn Manufacture	4	p. 102
	19		Fabric Design and Mfg.	20		Fabric Design and Mfg.	19	

PRELIMINARY ANNOUNCEMENT OF COURSES FOR SCHOOL OF ENGINEERING, 1926-1927.

DEPARTMENT OF ARCHITECTURE.

In the Department of Architecture two courses of study are offered; Architecture, leading to a degree of Bachelor of Science in Architecture (B. S. in Arch.), and Architectural Engineering, leading to a degree of Bachelor of Science in Architectural Engineering (B. S. in A. E.).

The course of study in Architecture lays emphasis upon art and architectural design, and is intended to prepare the student to enter, in time, the general practice of architecture.

The course of study in Architectural Engineering lays emphasis upon advanced construction and the mechanical equipment of buildings, and is intended to prepare the student to become a structural designer and engineer.

ARCHITECTURE.

COURSES OF INSTRUCTION.

121, 122, 123. *Freehand Drawing*. Laboratory 6 hours.

Prerequisite: None.

Freehand drawing of architectural casts in pencil, charcoal, and pen and ink.

126. *Study of the Orders*. Laboratory 6 hours.

Prerequisite: Architecture 131, 132.

Rendered studies of the Orders of Architecture.

131. *Shades and Shadows*. Laboratory 9 hours.

Prerequisite: Drawing 231.

Exercises in architectural shades and shadows.

132. *Perspective*. Laboratory 9 hours.

Prerequisite: Drawing 231.

Exercises in architectural perspective.

211, 212, 213. *Architectural History*. Class 1 hour.

Prerequisite: Sophomore standing.

History of the Egyptian, Western Asiatic, Greek, Roman, and Early Christian Architecture.

214, 215, 216. *Charcoal Drawing*. Laboratory 3 hours.

Prerequisite: Architecture 121, 122, 123.

Freehand drawing in charcoal from architectural casts.

217, 218. *Water Color Drawing*. Laboratory 3 hours.

Prerequisite: Architecture 214.

Studies from still life and outdoor sketching in water color.

221, 222, 223. *Architectural Drawing*. Laboratory 6 hours.

Prerequisite: Freshman Drawing.

Architectural working drawings following the best accepted office practice in the making of plans and details.

231, 232, 233. *Elementary Design*. Laboratory 9 hours.

Prerequisite: Architecture 131, 132, 126.

Elementary architectural design applied to rendered order and sketch problems.

311, 312, 313. *Life Drawing*. Laboratory 3 hours.

Prerequisite: Architecture 211, 212, 213.

Drawing in the different media from the living model.

314, 315, 316. *Water Color Drawing*. Laboratory 3 hours.

Prerequisite: Architecture 217, 218.

Advanced studies in still life and outdoor sketching in water color.

321, 322, 323. *Architectural History*. Class 2 hours.

Prerequisite: Architecture 211, 212, 213.

Architectural history from the Byzantine to the modern times.

324, 325, 326. *Building Sanitation*. Class 2 hours.

Prerequisite: Junior standing in Architecture.

Theory of heating, ventilation, lighting, acoustics, etc.

331, 332, 333. *Elementary Architectural Construction*. Class 2 hours.

Laboratory 3 hours.

Prerequisite: Junior standing in Architecture.

Masonry, woodwork, painting, metalwork, etc., which enters into the construction of a building. Graphic representation of stresses, bending moments, shears, deflections, etc.

361, 362, 363. *Intermediate Design*. Class 1 hour. Laboratory 18 hours.

Prerequisite: Architecture 231, 232, 233.

Rendered plan and sketch problems. Lectures on theory of architecture.

411, 412, 413. *Architectural History*. Class 1 hour.

Prerequisite: Architecture 321, 322, 323.

History of Modern Architecture.

414, 415, 416. *History of Art*. Class 1 hour.

Prerequisite: To be taken with Architecture 411, 412, 413.

History of sculpture and painting.

417, 418, 419. *Specifications*. Class 1 hour.

Prerequisite: Senior standing in Architecture or Architectural Engineering.

General and special clauses. Relation of architect, owner, and contractor. Practice writing.

421, 422, 423. *Architectural Rendering*. Laboratory 6 hours.

Prerequisite: Architecture 311, 312, 313.

Rendering of architectural subjects in the different media. Life drawing.

461, 462, 463. *Advanced Design*. Class 1 hour. Laboratory 18 hours.

Prerequisite: Architecture 361, 362, 363.

Advanced problems in designing and rendering architectural projects. Lectures on theory of form, architectural ornaments and composition, proportion, and balance.

ARCHITECTURAL ENGINEERING.

411, 412, 413. *Business Practice*. Class 1 hour.

Prerequisite: Senior standing in Architecture or Architectural Engineering.

Office organization, ethics, professional relations.

414, 415, 416. *Estimating*. Class 1 hour.

Prerequisite: Senior standing in Architecture or Architectural Engineering.

Methods of estimating, practice.

421, 422, 423. *Architectural Construction*. Class 2 hours.

Prerequisite: Senior standing in Architectural Engineering.

Advanced problems in building construction, reinforced concrete and steel construction. Trussed roofs, steel and masonry arches, domes.

434, 445. *Architectural Construction*. Laboratory 9 hours, Fall term; 12 hours, Spring term.

Prerequisite: To be taken with Architectural Engineering 421, 422, 423.

Applications in the drafting room of the principles taken up in Architectural Engineering 421 and 423.

DRAWING.

121, 122, 123. *Engineering Drawing*. Laboratory 6 hours.

Prerequisite: None.

Lettering, projection, machine sketching, working drawings, tracings.

231. *Descriptive Geometry*. Lecture 3 hours.

Prerequisite: Drawing 121 and Solid Geometry.

Point, line and plane; surfaces, intersections, developments. Course repeated each term.

DEPARTMENT OF CIVIL ENGINEERING.

Civil Engineering was originally so called to differentiate it from Military Engineering, there being but two main divisions of engineering—the productive and the destructive. But with the development of some of the great sources of power, of which two, steam and electricity, may be named, specialized knowledge has been developed and is required. Thus the mechanical engineer and electrical engineer has come into his own. Architecture requires special knowledge and particular talent and is a separate profession. Other branches of engineering might be named as separate professions.

Civil Engineering may be said to include a number of branches each resting on a relatively compact body of principles. They may be classified as:

(1) *Surveying and Geodesy*—which deals with the measurement and delineation of portions of the earth's surface and objects on it.

(2) *Railroad Engineering*—which deals with the location, construction, and some phases of the maintenance and operation of railroads.

(3) *Highway Engineering*—which deals with the location, construction, and maintenance of highways and pavements.

(4) *Hydraulic Engineering*—which deals with the use and control of water as a source of power, and as a necessity of life and convenience to mankind. In some of its phases, the practice of hydraulic engineering demands a knowledge of electrical and mechanical engineering.

(5) *Sanitary Engineering*—which deals with problems pertaining to the protection and preservation of the public health.

(6) *Structural Engineering*—which deals with the design and construction of fixed structures and their foundations. A profession closely allied to this branch is Architectural Engineering.

The course in Civil Engineering, offered by the Texas Technological College, aims to give thorough instruction in the fundamentals of each of these branches. The intent is to coordinate the theoretical instruction of the classrooms with the practical instruction offered in its drafting rooms and laboratories, so that its graduates will be able to apply the principles which they have studied, to the problems which they will have to meet, with intelligence, common sense, courage, and initiative.

The Department of Civil Engineering offers the following courses:

CIVIL ENGINEERING.

COURSES OF INSTRUCTION.

230. *Elementary Surveying*. Class 1 hour. Laboratory 6 hours.

Prerequisite: Mathematics E130.

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

Fee: \$1.00.

241, 242, 243. *Plane Surveying*. Class 2 hours. Laboratory 6 hours.

Prerequisite: Mathematics E130.

The course consists of the use, care, and adjustment of surveying in-

struments; the making of plane surveys with transit and tape; the running of profiles and cross sections with the level; the making of computations necessary in preparing scale drawings, profiles, and contour maps from field notes; the study of the mathematics of curves as applied to the location of railroads and highways, with field practice in laying out curves by various methods; the methods of and practice in staking out and computing earthwork and masonry.

Fee: \$1.00.

312. Materials Laboratory. Laboratory 3 hours.

Prerequisite: Registration in Civil Engineering 332.

Standard tests and reports on steel, iron, and wood specimens.

Fee: \$1.00.

313. Cement Laboratory. Laboratory 3 hours.

Prerequisite: Junior Engineering standing.

Study of the physical properties of cement, mortar, and concrete.

Fee: \$1.00.

330. Hydraulics. Class 3 hours.

Prerequisite: Registration in Civil Engineering 331.

Study of the principles of hydrostatics and hydrodynamics as applied to engineering problems.

331, 332, 333. Applied Mechanics. Class 3 hours.

Prerequisite: Mathematics E233.

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.

334. Surveying. Class 1 hour. Laboratory 6 hours.

Prerequisite: Civil Engineering 241, 242, 243.

Surveying by stadia, use of plane table, triangulation, astronomical determination of time, latitude, and longitude.

Fee: \$1.00.

342, 343. Structures. Class 3 hours. Laboratory 3 hours.

Prerequisite: Civil Engineering 331.

A course including an exhaustive study of curves of moment and shear; construction and use of influence lines and tables, stresses in framed structures by analytical and graphical methods, and the standard methods of determining stresses due to moving load systems.

410. Seminar. Laboratory 3 hours.

Prerequisite: Senior Civil Engineering standing.

Original study and reports on assigned subjects.

412. *Hydraulic Laboratory.* Laboratory 3 hours.

Prerequisite: Civil Engineering 330.

A laboratory study of the principles taught in Civil Engineering 330.

Fee: \$1.00.

413. *Highway Laboratory.* Laboratory 3 hours.

Prerequisite: Civil Engineering 435, 436.

Standard laboratory tests on road building materials.

Fee: \$1.00.

420. *Dynamics.* Class 2 hours.

Prerequisite: Civil Engineering 331, 332, 333.

A study of the principles of kinematics and kinetics.

430. *Materials.* Class 3 hours.

Prerequisite: Senior Engineering standing.

A lecture course designed to acquaint the student with the more common building materials such as brick, stone, cement, concrete, wood, lime, and plaster.

431. *Reinforced Concrete Theory.* Class 3 hours.

Prerequisite: Civil Engineering 331, 332, 333.

The study and application of the theory of reinforced concrete design.

433. *Concrete Structures.* Class 1 hour. Laboratory 6 hours.

A continuation of Civil Engineering 443.

434. *Structural Design.* Class 1 hour. Laboratory 6 hours.

Prerequisite: Civil Engineering 442.

Design and detailing of structures of wood and steel.

435, 436, 437. *Highway Engineering.* Class 3 hours.

Prerequisite: Senior Engineering standing.

Study of the location, design, construction, and maintenance of highways and pavements, with some attention to the financing of highway projects.

442. *Bridge Design.* Class 2 hours. Laboratory 6 hours.

Prerequisite: Civil Engineering 342, 343.

Complete design and detail of a plate girder.

443. *Concrete Structures.* Class 2 hours. Laboratory 6 hours.

Prerequisite: Civil Engineering 431.

The design of dams, retaining walls, concrete bridges, and buildings of reinforced concrete.

DEPARTMENT OF ELECTRICAL ENGINEERING.

The course in Electrical Engineering aims to give a thorough and comprehensive training in the fundamental principles of electricity and magnetism, which experience has proven to be necessary for the proper development of the electrical engineering student. Special emphasis is placed upon the student's ability to reason logically, apply mathematics, and speak and write clear, concise English. In order to prepare the student for his professional courses the first two years are devoted to a study of mathematics, English, physics, chemistry, drawing, and shop practice.

No sharp division can be made between the various branches of engineering. Therefore the student is given thorough courses in the fundamentals of chemical, civil, and mechanical engineering in addition to the work in electrical engineering.

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

ELECTRICAL ENGINEERING.

COURSES OF INSTRUCTION.

231. Principles of Electrical Engineering. Class 3 hours.

Prerequisite: Physics 243; Mathematics E232.

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

311, 312. Electrical Engineering Laboratory. Laboratory 3 hours.

Prerequisite: Registration in Electrical Engineering 335.

A laboratory testing course to accompany Electrical Engineering 334, 335 and 336.

Fee: \$1.50 per term.

321, 322, 323. Electrical Engineering Laboratory. Laboratory 6 hours.

Prerequisite: Registration in Electrical Engineering 331.

A laboratory course to accompany Electrical Engineering 331, 332 and 333.

Fee: \$1.50 per term.

331, 332, 333. Principles of Electrical Engineering. Class 3 hours.

Prerequisite: Electrical Engineering 231.

A course of recitations and problems devoted to the study of the fundamental theory, operating characteristics, and application of direct-current machinery. Alternating current circuits are studied in 333.

334, 335, 336. Elements of Electrical Engineering. Class 3 hours.

Prerequisite: Physics 243; Mathematics E233.

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.

410. *Electrical Engineering Seminar.* Class 1 hour.

Prerequisite: Electrical Engineering 432.

A study and discussion of current events in the field of electrical engineering.

421, 422, 423. *Electrical Engineering Laboratory.* Laboratory 6 hours.

Prerequisite: Registration in Electrical Engineering 431.

A laboratory course to accompany Electrical Engineering 431, 432 and 433.

Fee: \$1.50 per term.

431, 432, 433. *Alternating Current Machinery.* Class 3 hours.

Prerequisite: Electrical Engineering 333.

A course of recitations and problems on the construction, theory of operation, and characteristics of the principal types of alternating current machinery.

434, 435, 436. *Electrical Applications and Transmission.* Class 3 hours.

Prerequisite: Registration in Electrical Engineering 431.

A course devoted to problems and considerations involved in the transmission and utilization of electrical energy.

DEPARTMENT OF GEOLOGICAL ENGINEERING.

The course in Geological Engineering is designed to meet the needs of those students who desire technical training in geological subjects, together with training in engineering subjects. It combines courses offered in the College of Liberal Arts with courses offered in the College of Engineering. The object of the course is to fit students for practical work in economic geology, especially in those phases which have to do with the petroleum industry. (For courses of instruction see outline of curriculum for Geological Engineering.)

DEPARTMENT OF MECHANICAL ENGINEERING.

The course of study in the Department of Mechanical Engineering is designed to thoroughly ground the student in the fundamentals of power plant engineering, machine design, shop practice in manufacturing, refrigeration, gas engines, etc.

The field of mechanical engineering is a very broad one, and in order to better equip graduates of this department, elementary courses in chemical, civil, and electrical engineering are included in the curriculum.

Elective subjects and a foreign language supply the cultural study which is considered essential to the professional engineer.

Graduates of this department readily find employment with manufacturing organizations, railway companies, power companies, etc.

CHEMICAL ENGINEERING OPTION.

Students desiring to study Chemical Engineering will register in the Department of Mechanical Engineering. Certain chemistry courses will be substituted for some of the prescribed work in the curriculum, thus preparing the students for employment in the chemical phases of industrial and manufacturing fields.

Upon the completion of this curriculum the degree of Bachelor of Science in Mechanical Engineering (Chemical Engineering Option) will be conferred. The curriculum is so arranged that only one more year of study is required to earn the degree of Bachelor of Science in Chemical Engineering in institutions granting such degree.

MECHANICAL ENGINEERING.

COURSES OF INSTRUCTION.

211, 212. *Wood Shop*. Laboratory 3 hours.

Practice in woodworking to include bench work, lathe work, and other woodworking machines used in pattern making.

Fees: \$1.00 per term.

221, 222. *Mechanism*. Class 2 hours, or laboratory 6 hours.

Prerequisite: Registration in Mathematics E231.

Fundamentals of Mechanism.

311, 312, 313. *Machine Shop*. Laboratory 3 hours.

Prerequisite: Mechanical Engineering 212.

Bench work in metals, chipping, filing, and fitting. Exercises in machine tool work, including turning, planing, drilling, threading, milling, and grinding.

Fee: \$1.00 per term.

321, 322. *Mechanical Engineering Laboratory*. Laboratory 6 hours.

Prerequisite: Registration in Mechanical Engineering 332.

Work is entirely on steam engineering, involving a study of apparatus and instruments used, calibration and use of thermometers, pyrometers, gages, and indicators, with tests on steam engines. The laboratory work is followed by the analysis of data, and the preparation of adequate engineering reports.

Fee: \$1.50 per term.

326, 327. *Machine Design*. Laboratory 6 hours.

Prerequisite: Mechanical Engineering 222.

Drafting room work making the application of mechanics to the solution of a problem, involving the design of a complete machine with working drawings, bill of material, cost estimate, accompanied with complete calculations and description.

328, 329. *Mechanical Engineering Laboratory*. Laboratory 6 hours.

Prerequisite: Registration in Mechanical Engineering 335.

A laboratory-testing course to accompany Mechanical Engineering 334, 335 and 336.

Fee: \$1.00 per term.

331, 332, 333. *Thermodynamics*. Class 3 hours.

Prerequisite: Physics 243, Mathematics E233.

This course takes up in detail the principles of thermodynamics, including the compression and expansion of permanent gases; a discussion of the properties of saturated and superheated vapors, especially air and steam; the flow of fluids through orifices and nozzles; a study of the various cycles hot-air, steam, and internal combustion engines; of the turbine, compressor and refrigeration diagram. The course is supplemented with an extensive set of engineering problems.

334, 335, 336. *Heat Engines*. Class 3 hours.

Prerequisite: Mathematics E233, Physics 243.

Fuels, combustion, boilers, steam engines, and other power plant machinery. The third term is given over to the study of elementary thermodynamics.

411, 412. *Seminar*. Class 1 hour.

Prerequisite: Senior standing.

Studies of industrial engineering and scientific subjects presented by members of the class for informal discussion.

421. *Fuels Laboratory*. Laboratory 6 hours.

Prerequisite: Mechanical Engineering 322.

This course covers the determination of the calorific value of fuels, proximate analysis of fuels, sulphur determinations, and flue gas analysis.

Fee: \$1.50.

422. *Mechanical Engineering Laboratory*. Laboratory 6 hours.

Prerequisite: Mechanical Engineering 322.

Economy and performance tests of steam engines, turbines, pumps, internal combustion engines, etc.

Fee: \$1.50.

423. *Mechanical Engineering Laboratory*. Laboratory 6 hours.

Prerequisite: Registration in Mechanical Engineering 440.

Complete tests of internal combustion engines, including heat balances and entropy analysis.

Fee: \$1.50.

424, 425. *Machine Design*. Class 1 hour. Laboratory 3 hours.

Prerequisite: Mechanical Engineering 327.

A definite problem in the design of a machine, prime mover, or power plant, to be selected by the student in conference with the instructor.

Free reference to catalogues and available examples may be found on the subject.

431, 432. Power Plant Engineering. Class 3 hours.

Prerequisite: Mechanical Engineering 333.

This course is devoted to a study of fuels and combustion, stokers, furnaces, steam boilers, superheaters, mechanical draft, chimneys, steam engines, turbines, condensers, feed-water heaters and purifiers, pumps, and the economics of the steam power plant.

433. Heating and Ventilating. Class 2 hours. Laboratory 3 hours.

Prerequisite: Mechanical Engineering 333.

The principles of heating and ventilating. A study of the heat losses from buildings, selection, installation, and operation of modern systems of heating and air conditioning equipment. Recitation work in conjunction with adequate drawing room work.

434. Industrial Engineering. Class 3 hours.

Prerequisite: Senior standing.

A study of the development of the modern industrial system, the principles of industrial management, the application of scientific knowledge to industry, time study, standards, wage payment methods, industrial relations between management and employes, and management policies.

435. Refrigeration. Class 3 hours.

Prerequisite: Mechanical Engineering 432.

This course is a complete study of the compressor, condenser, ammonia piping and accessories of the refrigeration plant. It deals with the erection and operation of refrigeration systems and ice manufacture.

439. Metallurgy of Iron and Steel. Class 3 hours.

Prerequisite: Chemistry 143; Physics 243.

The manufacture of iron and steel, blast furnaces, puddling, cementation, crucible process, Bessemer process, open hearth process, iron and steel founding, heat treatment, malleable cast iron, the constitution of iron and steel and relation to physical properties, alloy steels.

440. Gas Engineering. Class 4 hours.

Prerequisite: Mechanical Engineering 432.

A study of the characteristic types of internal combustion engines, including stationary, marine, and automobile engines. The factors of design and construction affecting the characteristics and economy of the engines are carefully studied.

DEPARTMENT OF TEXTILE ENGINEERING.

The Department of Textile Engineering offers excellent opportunities to the students who intend entering the textile industry. With the superior equipment for instruction in the manufacture of all grades of cotton goods, this department is expected to bring a material increase

in the wealth and prosperity of the people of the State, and help reduce the millions of dollars worth of raw materials being shipped annually to distant factories to be made into finished products.

The building occupied by this department has two stories and is sixty-six feet wide by two hundred and eighteen feet long. It is a splendid example of architectural skill, and has admirably arranged classrooms, laboratories, machinery halls, etc.

A broad education is given as a foundation for the work in Textile Engineering. The studies include English, mathematics, physics, chemistry, machine design, surveying, steam engines and boilers, electricity, etc., in addition to the purely textile subjects, such as: opening, picking, carding, drawing, roving, spinning, spooling, twisting, reeling, winding, warping, slashing, designing, weaving, knitting, bleaching, dyeing, and finishing of textiles. The equipment is complete for performing all of these operations.

Complete systems of heating, lighting, humidifying, etc., and all apparatus, etc., found in the modernly equipped mill are installed here.

The practical work enables the student to become familiar with all details in the design, construction, and operation of the various machines and processes. Various products are manufactured by the students under the direction of the instructors.

The work of the freshman class is the same as that for the other engineering courses. That for the sophomores, however, includes a four-hour course in the fundamental theory and practice of textile engineering.

TEXTILE ENGINEERING.

COURSES OF INSTRUCTION.

221, 222, 223. Yarn Manufacture. Class 1 hour. Laboratory 3 hours.

Prerequisite: Sophomore standing.

Theoretical and practical. The various machines used for manufacturing cotton and woolen yarns are studied in detail relative to the principles involved, the construction, and the operation of each. The students learn the manufacture of yarns by actually doing all that is necessary in regard to the calculations, settings, adjustments, and operation of the machines used in the various processes of manufacture, in the conversion of the raw materials into the finished products. In other words, they learn by doing. Each student is required to make various products, and to keep a complete record, along with samples of the entire layout, yarn organizations, and in fact of all data used, for his own use in the future.

Breakage fee, \$6.00. Laboratory fee, \$3.00 per term for entire course.

231, 232, 233. Fabric Design and Manufacture. Class 1 hour. Laboratory 6 hours.

Prerequisite: Sophomore standing.

The students are given a thorough course in the design, analysis, and manufacture of a variety of fabrics. All of the work is executed by the students, in the production of fabrics; from the coarse goods to the

finer products. All data is collected, recorded, and kept along with samples of the fabrics, for future use in the mills, etc.

Laboratory fee, \$3.00 per term for entire course.

321, 322, 323. *Yarn Manufacture*. Class 1 hour. Laboratory 3 hours.

Prerequisite: Textile Engineering 223.

A continuation of 221, 222, 223.

331, 332, 333. *Fabric Design and Manufacture*. Class 1 hour. Laboratory 6 hours.

Prerequisite: Textile Engineering 233.

A continuation of 231, 232, 233.

Laboratory fee, \$3.00 per term. Breakage fee, \$6.00.

421, 422, 423. *Dyeing and Finishing*. Class 1 hour. Laboratory 3 hours.

Prerequisite or parallel: Chemistry 345.

Theoretical and practical. The course is arranged so as to give the student a clear idea as regards the principles involved in this work. Complete data and samples, both dyed, finished and unfinished, etc., are prepared and retained by the student for future use. The work in this, as in the other departments, is so laid out that the transfer from college to the mill will not be difficult. In other words, the student will feel at ease in the mill because he will be very familiar with the equipment, principles, etc., involved, and will have little to fear as to the proper handling of the work in any department in an entirely satisfactory manner.

431, 432, 433. *Yarn Manufacture*. Class 2 hours. Laboratory 3 hours.

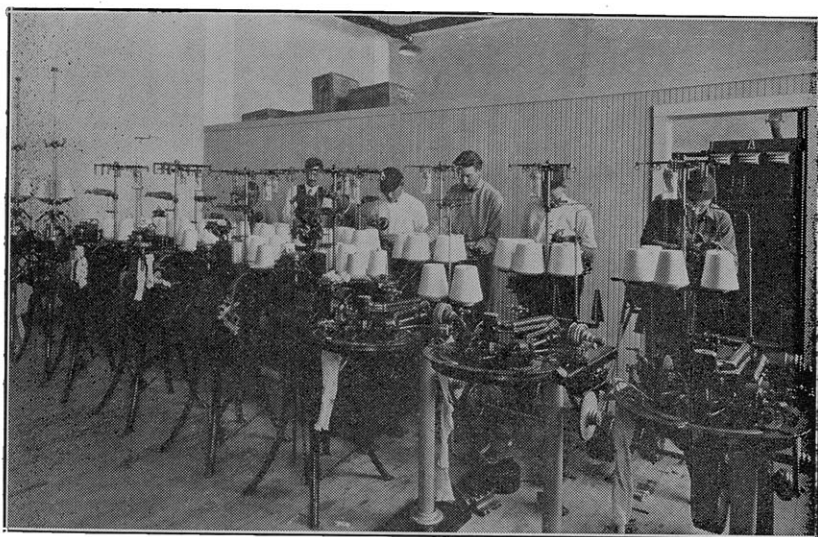
Prerequisite: Textile Engineering 323.

A continuation of 321, 322, 323.

441, 442, 443. *Fabric Design and Manufacture*. Class 2 hours. Laboratory 6 hours.

Prerequisite: Textile Engineering 333.

A continuation of 331, 332, 333.



MACHINERY IN KNITTING ROOM, TEXTILE BUILDING

SCHOOL OF AGRICULTURE.

PAUL WHITFIELD HORN, A. M., LL. D.,
President of the College.

A. H. LEIDIGH, M. S.,
Dean, and Professor of Agronomy.

W. L. STANGEL, M. S.,
Professor of Animal Husbandry.

C. H. MAHONEY, M. S.,
Associate Professor of Horticulture.

Associate Professor of Animal Husbandry.

F. I. DAHLBERG, B. S.,
Superintendent of Farms.

Texas in general, and Western Texas almost exclusively, depends upon agriculture for a livelihood. The availability of instruction in those subjects which have to do with sane, practical agriculture is fundamental to the prosperity and continued development in a State whose principal industries, even aside from agriculture, are in general dependent upon agriculture.

The purpose of the courses of study outlined herewith is to meet the needs of those who desire to prepare themselves for service and life in some part of the agricultural organization of this country as a whole. Courses are accordingly offered for those who expect to operate farms or ranches, those who purpose to enter technical and scientific professions bearing directly on agriculture, and also for those who desire to live in and be a part of a community in which the basic industry is agriculture. In all these courses it is felt that sympathy with and understanding of agricultural subjects and problems are essential to the intelligent citizen.

A man may acquire experience in farming by working at farming as a trade. Such practical experience is necessarily very limited, and is acquired slowly and expensively. A more systematic and broader knowledge of the subject acquired at a reasonable expense is obtainable in college, and at the same time the student obtains education in many of the so-called cultural subjects which broaden his outlook on life and make him more fit for the discharge of his duties to the State and to the community in which he lives.

A good education for one engaged in any of the various branches of agriculture necessitates that part of the cultural subjects of the usual college course be replaced by those which have a direct bearing on agriculture.

The scientific and technical subjects studied are fundamental. In the latter years of the student's work, the scientific and agricultural

subjects have both a more specific application to agriculture, and a more fundamental bearing on certain special lines of work which the student may desire to pursue as a life work.

EQUIPMENT FOR FIELD INSTRUCTION.

The School of Agriculture is equipped with a farm comprising approximately 700 acres of pasture land and 964 acres of farm lands, including small pastures, making a total of approximately 1664 acres. In addition to the farm the campus proper covers 320 acres, which is available for demonstration and instructional purposes especially in some branches of Horticulture.

Part of the farm land is devoted to the maintenance of live stock for purely instructive purposes. The balance is being developed for instructional purposes as rapidly as possible, pending which time part of it is leased. Equipment for farming is available and is selected to serve also for the purpose of instruction.

FIELD FOR GRADUATES.

There is a constant demand for men trained in specialized lines of Agriculture as well as for men to enter professions wherein a basic agricultural education is required. The School of Agriculture will assist its graduates in securing employment if desired. Among the lines of work usually open to graduates are the following positions:

Farmers and farm managers; marketing agents; managers of co-operative associations; teachers in colleges, academies and high schools; extension experts in agricultural colleges, railroads and land companies; government and experiment station lines of research work; horticultural experts; poultry experts; feed inspecting, etc.; county agents; assistants in seed houses; agricultural writing for farm journals; plant pathologists, and entomologists trained in agriculture.

ENTRANCE REQUIREMENTS.

The School of Agriculture requires fifteen standard entrance unit credits from an accredited high school or entrance by examination.

The units acceptable to meet the entrance requirements are:

1. English3 units
2. Mathematics:
 - Algebra1 unit
 - Plane Geometry1 unit
 And ten units selected from the following:
3. Social Sciences, such as:
 - History, civics, economics, sociology, etc.,
two units if only one is selected in group
four, but if two are selected in group four
then one unit from group three....2 or 1 unit

4. Science, such as:
 Botany, zoology, chemistry, physics, geology, general science, physiology, etc., two units if only one is selected in group three, but if two are selected in group three then one unit in group four.....2 or 1 unit
 5. Any other standard units, but not more than four can be vocational subjects.....7 units
-
- Total15 units

If the student cannot present the necessary two units in mathematics, but can present a total of fifteen units that are otherwise satisfactory, 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 course in the College.

ADDITIONAL REQUIREMENTS FOR GRADUATION.

Any candidate for a degree in Agriculture must have had at least six months farm experience in labor or management during the recent years of his life. A formal statement giving information regarding this experience must be filed in the dean's office previous to the first term of the candidate's senior year. If the statement does not receive approval the candidate will be required to satisfy this requirement before continuing his studies. Cooperation in securing employment on approved farms and ranches is offered by the departments to the end that, when desired, summer employment may be made to serve the purpose of this requirement.

SUBSTITUTION FOR FAILURE IN REQUIRED WORK.

A student who has a failing grade on his record in any required subject of the course must remove this grade by satisfactory repetition of the class work or be allowed to substitute other work by the faculty of the School of Agriculture before he will be graduated. If this failing grade is in a subject which is a prerequisite to other studies, this grade must be removed before the latter course may be attempted.

MAJOR LINES OF WORK.

Specialized courses of study are offered in Animal Husbandry, Agronomy, and Horticulture. A four-year course is also given in General Agriculture. While the curricula as scheduled are believed to be sufficient to cover the needs of the average students, it is possible to combine various portions of the work of two or more of them so that an even more specialized preparation may be secured. In special cases permission will be granted to combine the work of two or more departments. For those who are not certain what particular branch of the profession they will follow, it is advised that the general courses be adhered to. Substitutions and combinations will be permitted only when there is good evidence that the student desiring such work is

practically certain to follow the branch selected. In any case where modifications are granted, the degree will be based on the course in which the major part of the work was taken. Substitution of technical work for the required general cultural work in the course will not be permitted.

TEACHERS' CERTIFICATES.

By substituting proper courses in Education and English for work in the courses in Agriculture, the student may be granted teachers' certificates good for from four years in elementary schools to as much as a permanent high school certificate, depending on how much of the required work he has satisfactorily completed. Such substitution can be arranged for him by the joint approval of the dean of the School of Agriculture and the dean of the School of Liberal Arts.

WORK OFFERED TO STUDENTS REGISTERED IN THE OTHER SCHOOLS.

Courses with special appeal to students interested in Rural Economics, Journalism, Administration, Home Economics, Textile Engineering, and Rural Teaching are offered either as required subjects or as electives in the Agriculture curricula and provision made, whenever possible, to accommodate students from other parts of the College. When prerequisites are required, these conditions are inflexible.

DEGREES.

The degree of Bachelor of Science in Agriculture will be conferred upon completion of the prescribed courses in the School of Agriculture, given in the following pages, with majors in General Agriculture, Agronomy, Animal Husbandry, and Horticulture.

No senior courses will be offered in the year 1926-1927 in the School of Agriculture.

COURSES OF INSTRUCTION.

GENERAL AGRICULTURE COURSES.

A four-year course in General Agriculture is offered for those students who do not care to specialize in any certain department but do want a fundamental and working knowledge of the science of Agriculture. This allows these students to take elective subjects in other departments of the College. This course is designed for men who intend to enter general farming, as well as those who wish to enter the field of county agent work, high school agricultural teaching, agricultural chemistry, economic entomology, plant pathology, etc., and those intending to go on with graduate work. All electives will be carefully supervised and must be related to the major work of the individual student.

Those subjects which are of a general nature and are not yet definitely assigned to any specific department are classified under General Agriculture, and are under the direct supervision of the Dean of Agriculture.

FOUR-YEAR COURSE IN GENERAL AGRICULTURE

[illegible]

AGRONOMY MAJOR

Fall Term			Winter Term			Spring Term		
Designation		Credit Hours	Designation		Credit Hours	Designation		Credit Hours
A. H. 342	Animal Nutrition and Livestock Feeding	p. 115 4	Draw. 121	Mechanical Drawing	p. 92 2	Gen. 332	Genetics	p. 121 3
C. E. 230	Princ. of Surveying	p. 93 3	Gen. 331	Genetics	p. 121 3	Bot. 334	Plant Pathology	p. 45 3
P. S. 131	Public Speaking	p. 75 3	231	Bacteriological Prin.	p. 45 3	Eng. 137	English	p. 58 3
Bot. 231	Plant Morphology	p. 44 3	332	Grain Crops	p. 112 3	331	Soils	p. 112 3
Crops 331	Forage Crops	p. 111 3	333	Cotton and Fib. Crops	p. 112 3		Electives	3-5
		16		Electives	3			15-17
			Junior Year					
			Senior Year					
Gen. 431	Cotton and Grain Sorghum Breeding	p. 121 3	F. M. 432	Farm Management	p. 113 3	F. M. 433	Farm Management	p. 113 3
F. M. 431	Marketing of Agricultural Products	p. 113 3	431	Soils* Crop Judging	p. 112 3	Genl. Ag. 411	General Agricultural Lectures	p. 111 1
Irri. 431	Irrigation	p. 113 3	421	Adv. and Grain Grad.*	p. 112 2	412	Seminar	p. 113 1
Vet. Sc. 431	Animal Diseases	p. 118 3-5	411	Seminar	p. 113 1		Electives	11-12
	Electives	3-5		Electives	6-11			16-17
		15-17			15-17			

*One of these courses may be omitted and a supervised elective course be substituted.

ANIMAL HUSBANDRY MAJOR

[illegible]

*One of these courses may be omitted each term and a supervised elective course be substituted.

HORTICULTURE MAJOR

Fall Term			Winter Term			Spring Term		
Designation		Credit Hours	Designation		Credit Hours	Designation		Credit Hours
Hort. 341	Princ. and Practices of Orcharding	p. 119 4	Hort. 332	Prun. and Spraying	p. 119 3	Gen. 332	Genetics	p. 121 3
C. E. 230	Princ. of Surveying	p. 93 3	Hort. 331	Grap. and Small Fruit	p. 118 3	Bot. 334	Plant Pathology	p. 45 3
P. S. 131	Public Speaking	p. 75 3	Draw. 121	Mech. Drawing	p. 92 2	Hort. 337	Landscape Design	p. 119 3
Bot. 231	Plant Morphology	p. 44 3	Gen. 331	Genetics	p. 121 3	Eng. 137	English	p. 58 3
A. H. 342	Animal Nutrition and Livestock Feeding	p. 115 4	Bact. 231	Principles of Bact. Electives	p. 45 3	Hort. 339	Floriculture	p. 119 3
		17			17		Electives	18
			Junior Year					
			Senior Year					
Hort. 349	System. Pomology	p. 120 4	F. M. 432	Farm Management	p. 113 3	F. M. 433	Farm Management	p. 113 3
F. M. 431	Marketing Agricultural Products	p. 113 3	Hort. 333	Sub-trop. Pomology	p. 119 3	Gen. Ag. 411	General Agricultural Lectures	p. 111 1
Irr. 431	Irrigation	p. 113 3	Hort. 433	Marketing Horticultural Crops	p. 120 3	Hort. 412	Seminar	p. 120 1
Crops 331	Forage Crops	p. 111 3	Hort. 411	Seminar	p. 120 1	Hort. 439	Orch. Diseases and Insects	p. 120 3
	Electives	2-4		Electives	2-4		Electives	7-9
		15-17			15-17			15-17

General Agriculture 1½1, (1½2), (1½3). Agricultural Lectures.

Required of all freshmen students in the School of Agriculture.

An orientation course. One lecture a week by the dean and various faculty members.

General Agriculture 411. Agricultural Lectures.

Prerequisite: Senior standing in the School of Agriculture.

Required of all agricultural students.

Senior year, spring term.

This course is designed for agricultural students who are about to graduate and take up their life work. A brief consideration of the broad fundamental relationship of farmers and their co-workers with each other and of agricultural communities with other communities.

General Agriculture 431. Pasture Management.

Prerequisite: Senior standing in the School of Agriculture.

Elective.

The nature and importance of ranching and pasture farming. The production on ranches. The carrying capacity of pastures. Pasture conservation. The make up of pasture from the standpoint of the plants. The rotation of pastures.

Three lectures a week.

DEPARTMENT OF AGRONOMY COURSES.

The Department of Agronomy offers courses designed to provide instruction in farm crops, soils, farm management and, for the present, marketing of agricultural products.

In addition to maintaining demonstration plats to illustrate farm operations and practice, a large series of farm crop varieties are being maintained for the purpose of being available for the student as examples of practically all of the material that it is feasible to grow in this region. It is hoped that the presence and availability of this material here may be of great benefit to the farmer and seedsmen of this region, as well as of benefit to the student.

Crops 121, (122). The Fundamentals of Crop Production.

Required of all agricultural students.

The importance and value of crops, their classification, distribution, production, and use.

Text: *The Production of Field Crops*, Huthcheson and Wolfe.

One lecture and one three-hour laboratory a week.

Laboratory fee: \$1.00.

Crops 331. Forage Crops.

Prerequisite: Crops 122, Botany one year.

Required in all courses in Agriculture.

The production, harvesting, and storage and use of forage crops, green manure and cover crops, together with a consideration of mis-

cellaneous hay and pasture crops. The identification of seeds and grasses. Hay grading.

Two lectures and one three-hour laboratory each week.

Laboratory fee: \$1.00.

Crops 332. Grain Crops.

Prerequisite: Crops 122, Botany one year.

Required in the course in Agronomy.

The production, harvesting, storage, and use of grain crops, grain sorghums, wheat, oats, barley, corn, and other grains. Their improvement; grain grading and variety identification.

Two lectures and one three-hour laboratory each week.

Laboratory fee: \$1.00.

Crops 333. Cotton and Other Fiber Crops.

Prerequisite: Crops 122, Botany one year.

Required in the course in Agronomy, elective in other agricultural courses.

Cotton culture, including the classification of cotton, its species and varieties, and their adaption. The culture and harvesting, the improvement, the diseases and insect pests of cotton. Cotton grades. A study of world cotton production.

Two lectures and one three-hour laboratory a week.

Laboratory fee: \$2.00.

Crops 421. Advanced Crop Judging and Grain Grading.

Prerequisite: Crops 332; Crops 331.

Elective.

Detail instruction in grading grains, including a study of the State and Federal grain grading standards. A study of the factors involved in determining the quality of seeds. Practices in grading and competitive judging of seeds, grain, and crop samples.

Two three-hour laboratory periods a week.

Laboratory fee: \$2.00.

Soils 331. Soils.

Prerequisite: One year of Chemistry, two terms of Physics, Crops 122.

Required in courses in Agronomy and General Agriculture.

The fundamental principles of soil structure and properties; nutrients; the maintenance of fertility; moisture conservation; soil identification and mapping.

Three lectures a week.

Soils 431. Soil Fertility.

Prerequisite: Soils 331.

Elective.

A complete study of the factors influencing the immediate crop productive capacity of the soil.

Two lectures, one three-hour laboratory each week.

Fee: \$1.00.

Soils 432. Dry Land Farming.

Prerequisite: Soils 331.

Elective.

A study of the fundamental principles of farming under light rainfall conditions.

Three lectures a week.

Agronomy 411 (412). Agronomy Seminar.

Required in the course in Agronomy.

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

Hours to be arranged.

Farm Management 431. Marketing Agricultural Products.

Prerequisite: Two terms of Economics and senior standing.

Required in all agricultural courses.

The course is designed to study the economic principles that underly modern marketing. The efforts, both efficient and inefficient, at present used in marketing are considered. Cooperative marketing and farmer selling organizations are studied in detail.

Three hours lecture each week.

Farm Management 432 (433). Farm Management.

Prerequisite: Farm Management 431.

Required in all courses in Agriculture.

General principles of farm operation and management as a business. The choice of a farm for specific needs and the suitability of certain farms for certain kinds of operation. Land economics. The use of capital and labor; cost of production; records and accounts. Consideration of credit, insurance, banking, taxation.

Three hours lecture each week.

Irrigation 431. Irrigation.

Prerequisite: Surveying.

Required in courses in General Agriculture, Horticulture and Agronomy.

A study of the fundamental principles and practices of the application, use, and waste of irrigation water. Irrigation projects; supplemental irrigation; the irrigated home garden and orchard.

Three hours of lecture a week.

DEPARTMENT OF ANIMAL HUSBANDRY COURSES.

The Department of Animal Husbandry provides instruction designed to train students in selecting, breeding, feeding, caring for and marketing of farm and ranch animals. The live stock and poultry, which includes most of the major breeds of beef and dairy cattle, hogs, horses, sheep, and poultry, are maintained and used primarily for class instruction.

The equipment of the department includes a live stock judging pavilion, a modern dairy barn which will house sixty head of stock, in-

cluding forty dairy cows, and has a completely equipped milk room, as well as feed mow large enough to store feed for all live stock, a concrete silo, a poultry plant covering ten acres, fenced and cross fenced, on which have been erected eight 10x12-foot egg-laying contest houses and four 20x30-foot production houses.

Laboratory equipment, besides including the farm animals and barn equipment, also includes complete apparatus for instruction in dairying, and feeding of farm animals.

Animal Husbandry 131. Types, Market Classes, and Breeds of Beef Cattle and Sheep.

Required of all agricultural students.

Brief survey of the beef cattle and sheep industries; definitions of terms; determination of age by teeth; breeding and fat show-yard classification; description and value of types; beef and mutton carcasses; wholesale cuts; packing house by-products; markets; market classes and grades; feeder cattle and sheep; wools and wool growing; score card and competitive judging of breeding and fat beef cattle and sheep; classification of breeds of beef cattle and sheep; constructive breeders; characteristics; utility; adaptability; distribution; families or tribes; outstanding individuals; outstanding breeders; breed organizations and publications; comparative judging of representative individuals.

One hour lecture and two three-hour laboratory periods per week.

Texts: *Types and Market Classes of Live Stock*, Vaughan; *Types and Breeds of Farm Animals*, Plumb.

Laboratory fee: \$1.00.

Animal Husbandry 132. Types, Market Classes, and Breeds of Hogs and Horses.

Required of all agricultural students.

Brief survey of hog and horse industries; definition of terms; determination of age by teeth of horse; horse show-yard classification; breeding and fat hog show-yard classifications; description and value of types; markets; market classes and grades; hog carcass; wholesale hog cuts; packing house by-products; anatomical study of horse; conformation with relation to action; unsoundness; the mule; score card and comparative judging; classification of breeds; native home and origin; history and development; constructive breeders; characteristics; utility; adaptability; distribution; outstanding individuals; leading breeders; breed organizations and publications; comparative judging of representative individuals.

One hour lecture and two three-hour laboratory periods per week.

Texts: *Types and Market Classes of Live Stock*, Vaughan; *Types and Breeds of Farm Animals*, Plumb.

Laboratory fee: \$1.00.

Animal Husbandry 133. Types and Breeds and Dairy and Dual-Purpose Cattle.

Required of all agricultural students.

Brief survey of the dairy industry; description and value of types;

relation of type to production; secretion of milk; score card and comparative judging; native home and origin of breeds; history and development; characteristics; adaptability; distribution; families; outstanding individuals; leading breeders; advanced registry; breed organizations and publications; comparative judging of representative animals.

One hour lecture and two three-hour laboratory periods per week.

Laboratory fee: \$1.00.

Animal Husbandry 331. Advanced Livestock Judging.

Prerequisites: Animal Husbandry 131, 132, and 133.

Required of all Animal Husbandry students.

Advanced course in the judging of market and breeding animals of the different types and breeds; special emphasis is placed on show-yard judging.

Three three-hour laboratory periods per week.

Animal Husbandry 341. Animal Nutrition.

Prerequisite: Organic Chemistry.

Required of all Animal Husbandry students.

Chemical composition of plants and animal body; digestion; metabolism; digestibility, energy, and manurial value of feeds; feed requirements of animals for maintenance, growth, fattening, milk production, wool production, and work; feeding standards in calculating rations; the study and use of various feeding stuffs, including cereals and by-products, oil bearing seeds and by-products; legumes, legume seeds and by-products; hays, fodders, straws, pastures; forages, root crops, silages, and miscellaneous feeds.

Text: *Feeds and Feeding*, Henry and Morrison.

Three hours lecture and one three-hour laboratory period per week.

Animal Husbandry 342. Animal Nutrition and Livestock Feeding.

Prerequisite: Organic Chemistry.

Required of all agricultural students except those in Animal Husbandry.

A modification of course 341, together with a study of the practical feeding of beef cattle, dairy cattle, hogs, horses, and sheep.

Text: *Feeds and Feeding*, Henry and Morrison.

Three hours lecture and one three-hour laboratory period per week.

Animal Husbandry 431. Beef Production.

Prerequisite: Animal Husbandry 341 and Genetics 332.

Elective.

Beef cattle situation; breeding; feeding for market; feeding on range; pure-bred herd and range management; fitting for show; marketing; disease control; records.

Text: *Beef Production*, Snapp.

Two hours lecture and one three-hour laboratory period per week.

Animal Husbandry 432. Horse Production.

Prerequisite: Animal Husbandry 341 and Genetics 332.
Elective.

Review of the horse and mule situation; breeding; feeding; breaking and training; stabling; harness and harnessing; shoeing; fitting for sale and show; shipping; caring for brood mare and foal; caring for stallion and jack; shipping; diseases and sanitation; stallion registration laws. Marketing.

Text: *Productive Horse Husbandry*, Gay.

Two hours lecture and one three-hour laboratory period per week.

Animal Husbandry 433. Sheep Production.

Prerequisite: Animal Husbandry 341 and Genetics 332.
Elective.

Review of sheep situation; adaptation of breeds; breeding; feeding; range management; forage crops; fitting for show and showing; parasites and diseases; shearing; marketing; records.

Text: *Productive Sheep Husbandry*, Coffey.

Two hours lecture and one three-hour laboratory period per week.

Animal Husbandry 434. Swine Production.

Prerequisite: Animal Husbandry 341 and Genetics 332.
Elective.

Review of hog situation; breeding; feeding for market; care and feeding of the breeding herd; housing; forage crops; fitting for show; showing; marketing; sanitation and disease control; killing and curing products; records.

Text: *Swine Production*, Smith.

Two hours lecture and one three-hour laboratory period per week.

Animal Husbandry 441. Livestock Management.

Prerequisite: Animal Husbandry 131, 132, 133, and 342, and Genetics 332.

Elective in all courses except Animal Husbandry.

A modification of courses 431, 432, 433, 434, and Dairy Husbandry 431.

Three hours lecture and one three-hour laboratory period per week.

Animal Husbandry 411. Seminar.

Required in Animal Husbandry.

Assigned selected subjects; review of recent investigations.

One hour lecture per week.

Animal Husbandry 412. Seminar.

Required in Animal Husbandry.

Continuation of Animal Husbandry 411.

One hour lecture per week.

Dairy Husbandry 231. Dairying.

Prerequisite: Animal Husbandry 133.

Required of all Agricultural students.

Secretion; composition; testing; separation of milk; farm manufacture of butter, cheese, and ice cream.

Text: *The Principles of Dairying*, Judkins.

Laboratory fee: \$2.00.

Two hours lecture and one three-hour laboratory period per week.

Dairy Husbandry 241. Farm Dairying (Home Economics).

Elective.

The dairy industry; breeds; breeding; feeding; management; methods of milking; milk testing; care and handling of milk products of farm; barns; sanitation; diseases.

Text: *Farm Dairying*, C. Larsen.

Laboratory fee: \$2.00.

Three hours lecture and one three-hour laboratory per week.

Dairy Husbandry 431. Dairy Production.

Prerequisite: Animal Husbandry 341 and Genetics 332.

Elective.

Review of the dairy industry; breeding; feeding for growth, maintenance, and milk; dairy barn construction and sanitation; marketing products; milk ordinances; advanced registry; records.

Text: *Dairy Cattle and Milk Production*, Eckles.

Two hours lecture and one three-hour laboratory period per week.

Poultry Husbandry 231. Farm Poultry.

Required of all Agricultural students.

The poultry industry; classes, breeds, and varieties; judging utility and exhibition birds; culling; breeding; incubation; brooding; feeding; housing; preparing for market; marketing; sanitation; diseases.

Text: *Poultry Production*, Lippincott.

Laboratory fee: \$1.00.

Two hours lecture and one three-hour laboratory period per week.

Poultry Husbandry 431. Poultry Production.

Prerequisite: Poultry Husbandry 231, Animal Husbandry 341, and Genetics 332.

Elective.

Review of poultry industry; breeding; hatching; brooding; feeding for egg production and market; marketing eggs and poultry; housing; sanitation and disease control; commercial hatching; advanced judging; records.

Text: *Productive Poultry Husbandry*, Lewis.

Two hours lecture and one three-hour laboratory period per week.

Veterinary Science 331. Anatomy and Physiology of Domestic Animals.

Required in Animal Husbandry.

Skeletal, muscular, digestive, and reproductive organs of farm ani-

male; physiology of blood, lymph, circulatory and respiratory systems, ductless glands, digestive tract, and organs of elimination.

Two hours lecture and one three-hour laboratory period per week.

Veterinary Science 431. Animal Diseases.

Required in Animal Husbandry.

Discussion of common infections and non-infectious diseases of domestic animals.

Text: *Veterinary Medicine*, Law.

Two hours lecture and one three-hour laboratory period per week.

DEPARTMENT OF HORTICULTURE COURSES.

The Department of Horticulture offers instruction in the fundamental principles underlying Horticulture. This comprises instruction in plant propagation, orcharding, floriculture, truck farming, ornamentals, and landscape design.

The fact that every farmer should have his own home garden and should beautify his own farm property is properly stressed.

Space for greenhouse instruction with the necessary laboratory equipment is available.

The beautification of the campus, which is under way, offers abundant instruction to the student in planning, planting, training, and identification of trees, shrubs, flowering shrubs, and flowering annuals and perennials.

Horticulture 231 (232). Plant Propagation.

Prerequisites: Botany 131.

A study of plant propagation. Greenhouse and nursery practice. Required of all students in Agriculture. Prerequisite to all courses in Horticulture.

Two lectures and one three-hour laboratory period a week.

Laboratory fee: \$2.00 per term.

Text: *Plant Propagation, Greenhouse and Nursery Practice*, Kains. Also other references.

Horticulture 233. Vegetable Gardening.

Prerequisite: Horticulture 231.

Required of all Agricultural students. Open to Home Economics students majoring in Home Demonstration.

A course dealing with planting, planning, and operating a truck garden with special reference to the home garden, also taking up fertilization and spraying of garden, and erection of cold frames and hot beds.

Three lectures a week.

Text: *Garden Farming*, Corbett, with references.

Horticulture 331. Grapes and Small Fruits.

Prerequisite: Horticulture 231, 232.

Required of all Horticulture students.

A study of grapes and small fruits with reference to climate, soil,

water requirements, propagation, and pruning. A study of varieties and cultural practices.

Two lectures and one three-hour laboratory a week.

Laboratory fee: \$1.00. Field trip fee: \$2.00.

Horticulture 332. Pruning and Spraying.

Prerequisite: Horticulture 231, 232.

Required of all Horticulture students.

The principles of pruning fruit trees, ornamentals, grapes, and small fruits. The course also takes up the methods of spraying for fungus and bacterial diseases of orchard and truck gardens.

Two lectures and one three-hour laboratory period a week.

Laboratory fee: \$1.00. Field trip fee: \$2.00.

Horticulture 333. Sub-tropical Pomology.

Prerequisite: Horticulture 231.

A study of fruits of commercial importance in the Southwest such as persimmon, pecan, avocado, fig, olive, walnut, and dates.

Three lectures.

Horticulture 337. Landscape Design.

Prerequisite: Mechanical Drawing, Horticulture 231.

Required of all Horticulture students.

Open to Home Economics students majoring in Home Demonstration work.

An introductory course dealing with the principles of landscaping and beautifying homes, estates, school grounds, and parks, also taking up the description and use of different ornamentals.

Two lectures and one three-hour laboratory a week.

Laboratory fee: \$1.00.

Horticulture 339. Floriculture.

Required of Horticulture students and open to Home Economics students majoring in Home Demonstration, and Liberal Arts students interested in the work.

This course deals with the culture and use of annuals, perennials, bulbous plants, and flowering shrubs, especially adapted to this region. It is a study of varieties, making flower panels, group plantings, and general beautification of the home. Practice in greenhouse work, making planting plans, and actual practice in working with campus plantings.

Two lectures and one three-hour laboratory.

Horticulture 341. Principles and Practices of Orchardng.

Prerequisite: Horticulture 231.

Required of all Horticulture students.

A course dealing with manner of planning, planting, training and pruning of a young orchard.

Three lectures and one three-hour laboratory period.

Laboratory fee: \$1.00. Field trip fee: \$1.00.

Horticulture 349. Systematic Pomology.

Prerequisite: Horticulture 231, 232; Horticulture 341.

Required of all Horticulture students.

A study of the principles underlying nomenclature, variety, description, and classification. Practice is given in describing and identifying varieties of fruits, judging and planning exhibits.

Three lectures and one three-hour laboratory.

Laboratory fee: \$5.00.

Horticulture 411 (412). Seminar in Horticulture.

Prerequisite: Senior standing.

Assigned problems and readings in Horticulture, with informal discussions and oral reports.

Open to Senior Horticulture students.

One hour lecture per week. Time to be arranged as students call for course.

Horticulture 431. Ornamentals.

Prerequisite: Horticulture 231, 232.

This course deals with a comprehensive study of ornamental trees and shrubs adapted to this region and State. Practice takes up propagation, shearing, pruning, and classification of ornamentals.

Two lectures and one three-hour laboratory per week.

Laboratory fee: \$2.00.

Horticulture 433. Marketing Horticultural Products.

Prerequisite: Horticulture 231, 241, and Economics 131.

Open to Junior and Senior students.

This course deals with improved methods of picking, packing, grading, and marketing of horticultural products. It takes up the cooperative association, its principles, and method of organization.

Three lectures per week.

Horticulture 434. Citriculture.

Prerequisites: Horticulture 231, 232, and 341.

Required of all Horticulture students.

This course deals with the commercial production of citrus fruits, questions of adaptation, soil requirements, temperature, orchard heating, and irrigation. It is intended that the Senior Horticulture students take a trip to the Rio Grande Valley during the summer months.

Three lectures.

Horticulture 439. Orchard Diseases and Insects.

Prerequisites: Botany 231, Entomology, Plant Pathology, and Senior standing in the School of Agriculture.

Required of all Horticulture students.

A study of the most important diseases and insects of orchard and garden, and the latest improved methods of control.

Three lectures per week.

Genetics 331. Principles of Genetics.

Prerequisite: Agricultural Mathematics, Botany, Zoology, and Entomology.

Required of all Agricultural students.

A study of heredity and variation of both plants and animals.

Two hours lecture, three hours laboratory a week.

Laboratory fee: \$2.00.

Genetics 332. Principles of Genetics.

Prerequisite: Genetics 331.

Required of all Agricultural students.

A continuation of Genetics 331, with special emphasis on the factorial basis of heredity.

Three hours lecture each week.

Genetics 431. Cotton and Grain Sorghum Breeding.

Prerequisite: Genetics 332.

Required of all students majoring in General Agriculture and in Agronomy. Elective in other courses.

A complete study of the results of practical plant improvement particularly from the viewpoint of cotton and other plants common to the Southwest.

Three lectures a week.

SCHOOL OF HOME ECONOMICS.

FACULTY.

PAUL W. HORN, A. M., LL. D.,
President.

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

JONNIE HEMPHILL MCCREERY, M. A.,
Professor of Foods and Nutrition.

DOROTHY MCFARLANE, M. A.,
Assistant Professor of Clothing and Director of Cafeteria.

Associate Professor of Clothing.

Associate Professor of Art.

THE PURPOSE.

The School of Home Economics of the Texas Technological College offers to young women a college curriculum in which scientific courses and practical work are closely woven with the familiar subjects of the college course; the aim being that the students who complete the course shall have the culture and broad-mindedness which is the asset of the college trained woman, together with the practical knowledge and scientific training necessary to the home-maker of today.

In addition to the vocation of the home-maker the School of Home Economics aims to train students for specific vocations. The four majors outlined below are planned with the idea of stressing the students' major interests. The first year is essentially the same regardless of what major the student may select.

1. *General Home Economics.*—Designed to meet the needs of the student who wishes general training for the home rather than for professional use.

2. *Teacher Training in Home Economics.*—For the student who wishes to prepare herself for the profession of teacher of home economics in the high schools of the State.

3. *Foods and Nutrition.*—For the student who wishes more intensive training along the lines of food and nutrition than is given in the preceding majors. A student may prepare herself by choosing suitable electives for such positions as (a) teacher of foods and nutrition; (b) dietitian; (c) lunchroom for institutional manager; (d) nutrition worker in organizations promoting health.

4. *Clothing and Design*.—Intended for the student who wishes more intensive training along the lines of clothing and design. A student with this major may prepare herself for such positions as (a) a teacher of clothing and applied design; (b) dressmaker; (c) milliner; (d) work in department stores, such as textile buyer or shoppers' adviser.

ADMISSION.

Admission requirements to the School of Home Economics of the Texas Technological College are similar to the general admission requirements of other schools in the College.

Admission may be by any one of the three methods following:

A. Upon presentation of a certificate of graduation from an accredited secondary school.

B. Upon successful examination in the entrance subjects.

C. Upon individual approval.

Fifteen units are required for admission to full freshman standing, as follows:

1.	English	3 units
2.	Foreign Language	2 units
3.	Mathematics	2 units
	Plane Geometry 1	
	Algebra 1	
	Two from either	2 units
4.	(a) History, Civics, Economics, Sociology, or	
	(b) Botany, Zoology, Chemistry, Physics, Geology, General Biology, etc.	
5.	From the group not chosen under (4)	1 unit
6.	From any accredited high school subjects, not more than four of which may be vocational subjects	5 units
Total		15 units

Students who have not the units in foreign language to present for entrance will schedule two years of foreign language in order to make up the deficiency. The extra year will be used to absolve the entrance requirement.

Students desiring to enter by examinations may take the examinations given under the supervision of the State Department of Education in the month of May each year. Full entrance examinations will be held at the College on September 16-18.

A candidate over twenty-one years of age, who has not recently attended school, and who cannot satisfy the entrance requirements in full may be admitted to the freshman class without examination, provided she can satisfy the Dean of the School of Home Economics that she can profit by the instruction to be given in the Freshman class.

The Bachelor of Science degree will be granted upon the satisfactory completion of any one of the following curricula:

REQUIRED FOR GRADUATION.

<i>General Home Economics Major.</i>	Credit Hours
English	18
History	9
Foreign Language	9
Chemistry	12
Biology	15
Mathematics	6
Physics	6
Government	9
Parliamentary Law	3
Sociology	9
Psychology and Education	6
Foods and Nutrition	18
Clothing and Design	21
Home Management	15
Home Economics Electives	18
General Electives	12
Total	186

<i>Teacher Training Major.</i>	Credit Hours
English	18
History	9
Foreign Language	9
Biology	15
Chemistry	18
Mathematics	6
Psychology	9
Education	12
Government	6
Sociology	9
Clothing and Design	30
Foods and Nutrition	27
Home Management	12
Home Economics Electives	6
Total	186

<i>Clothing and Design Major.</i>	Credit Hours
English	18
History	9
Foreign Language	9
Biology	15
Chemistry	12
Mathematics	6
Physics	6
Psychology and Education	9
American Government	6
Sociology	9

	Credit Hours
Economics	9
Parliamentary Law	3
Foods and Nutrition	9
Clothing and Design	39
Home Economics Electives	9
General Electives	18
Total	186

<i>Foods and Nutrition Major.</i>	Credit Hours
English	18
History	9
Foreign Language	9
Biology	15
Chemistry	24
Physics	6
Mathematics	6
Psychology and Education	9
American Government	6
Sociology	9
Parliamentary Law	3
Foods and Nutrition	36
Clothing and Design	12
Home Economics Electives	12
General Electives	12
Total	186

Two years of Physical Education are required for graduation from any major.

CURRICULUM FOR GENERAL HOME ECONOMICS MAJOR.

<i>Freshman Year.</i>	Credit Hours
English 131, 132, 133	9
Foreign Language 131, 132, 133, or History 131, 132, 133	9
Inorganic Chemistry 141, 142, 143	12
Mathematics H131, H132	6
Clothing 131, 132, 133	9
Design 131	3
Total	48

<i>Sophomore Year.</i>	Credit Hours
English 231, 232, 233	9
History 131, 132, 133, or Foreign Language 131, 132, 133	9
Zoology 134, 135	6
American Government 231, 232, 233	9
Foods and Nutrition 131, 132, 133	9
Parliamentary Law	3
Total	45

<i>Junior Year.</i>	Credit Hours
Foods and Nutrition 231, 232, 233.....	9
Clothing 231, 232, 233.....	9
Home Management 331.....	3
Home Management 332.....	3
Education 230	3
Education H331	3
Bacteriology 231, 232, 233.....	9
Physics 341, 342.....	6
Total	45

<i>Senior Year.</i>	Credit Hours
Home Management 461.....	6
Home Management 431.....	3
Sociology	9
Foods and Nutrition Electives.....	9
Clothing and Design Electives.....	9
General Electives	12
Total	48

This major does not prepare for teaching any phase of home economics.

CURRICULUM FOR TEACHER TRAINING IN HOME ECONOMICS.

<i>Freshman Year.</i>	Credit Hours
English 131, 132, 133.....	9
History 131, 132, 133, or Foreign Language 131, 132, 133.....	9
Chemistry 141, 142, 143.....	12
Mathematics H131, H132.....	6
Design 131	3
Clothing 131, 132, 133.....	9
Total	48

<i>Sophomore Year.</i>	Credit Hours
English 231, 232, 233.....	9
History 131, 132, 133, or Foreign Language 131, 132, 133.....	9
Zoology 134, 135	6
Education 230, 231, 232.....	9
Foods 131, 132, 133.....	9
Home Management 331.....	3
Total	45

<i>Junior Year.</i>	Credit Hours
Organic Chemistry 331, 332.....	6
American Government 231, 232, 233.....	6
Clothing 232, 233.....	6
Design 231	3

	Credit Hours
Foods 231, 232, 233.....	9
Bacteriology 231, 232, 233.....	9
Education H331	3
Home Management 332.....	3
Total	45

<i>Senior Year.</i>	Credit Hours
Home Management 461.....	6
Sociology	9
Education H431, H432, H433.....	9
Clothing 331,	
Clothing 332,	
Clothing 333	9
Foods 331,	
Foods 334,	
Foods 335	9
Elective	6
Total	48

CURRICULUM FOR CLOTHING AND DESIGN MAJOR.

<i>Freshman Year.</i>	Credit Hours
English 131, 132, 133.....	9
Foreign Language 131, 132, 133, or History 131, 132, 133.....	9
Inorganic Chemistry 141, 142, 143.....	12
Mathematics H131, H132.....	6
Design 131	3
Clothing 131, 132, 133.....	9
Total	48

<i>Sophomore Year.</i>	Credit Hours
English 231, 232, 233.....	9
History 131, 132, 133, or Foreign Language 131, 132, 133.....	9
Zoology 134, 135.....	6
Clothing 231, 232, 233.....	9
Foods and Nutrition 131, 132, 133.....	9
Parliamentary Law (Government 221).....	3
Total	45

<i>Junior Year.</i>	Credit Hours
American Government 231, 232, 233.....	6
Education 230, 231, 232.....	9
Clothing 331	3
Clothing 332	3
Clothing 333	3

	Credit Hours
Bacteriology 231, 232, 233.....	9
Physics 341, 342.....	6
General Electives	9
Total	48

<i>Senior Year.</i>	Credit Hours
Sociology	9
Economics	9
Design 431	3
Clothing 431, 432.....	6
General Electives	9
Home Economics Electives.....	9
Total	45

CURRICULUM FOR FOODS AND NUTRITION MAJOR

<i>Freshman Year.</i>	Credit Hours
English 131, 132, 133.....	9
Foreign Language 131, 132, 133, or History 131, 132, 133.....	9
Inorganic Chemistry 141, 142, 143.....	12
Foods and Nutrition 131, 132, 133.....	9
Design 131	3
Mathematics H131, H132.....	6
Total	48

<i>Sophomore Year.</i>	Credit Hours
English 231, 232, 233.....	9
History 131, 132, 133, or Foreign Language 131, 132, 133.....	9
Zoology 134, 135	6
Clothing 131, 132, 133.....	9
Foods and Nutrition 231, 232, 233.....	9
Parliamentary Law (Government 221).....	3
Total	45

<i>Junior Year.</i>	Credit Hours
Organic Chemistry 331, 332.....	6
Physics 341, 342.....	6
Bacteriology 231, 232, 233.....	9
Education 230, 231, 232.....	9
Foods and Nutrition 331, 332, 333, or 331, 334, 335.....	9
American Government 321, 322, 323.....	6
General Electives	3
Total	48

<i>Senior Year.</i>	<i>Credit Hours</i>
Physiological Chemistry 437, 438.....	6
Economics and Sociology.....	9
Foods and Nutrition Electives.....	9
General Electives	9
Home Economics Electives.....	12
Total	45

COURSES OF INSTRUCTION

CLOTHING AND DESIGN.

Clothing 131. Principles of Clothing Construction.

Required of all students except those who have completed a satisfactory amount of clothing in an accredited high school.

One hour recitation; four hours laboratory; fee, \$2.00.

Design 131. Elementary Design.

Study of principles of design as illustrated by line, color, and form.

Clothing 132, 133. Garment Construction.

Prerequisite: Clothing 131 or equivalent; Design 131.

The adaptation and use of commercial patterns; drafting simple patterns and applying the drafts to construction of garments in linen and cotton. Handwork, mending, and simple embroidery are also taught. The lectures include a study of the hygiene and care of clothing as well as selection.

One hour lecture; four hours laboratory; fee, \$2.00.

Design 231. Costume Design.

Prerequisite: Clothing 132, 133.

Application of principles of design to costume, and the adaptation to the individual.

Clothing 232, 233. Dressmaking.

Prerequisite: Design 231.

Preparation of dress form to be used in making dresses in silk and wool with emphasis on tailored finishes.

Clothing 331. Textiles.

Development of textile industry; identification of fabrics; effects of chemicals upon the different fibers. Study of house furnishing materials as well as of clothing.

Clothing 332. Children's Clothing.

Prerequisite: Clothing 132, 133.

Designing and construction of children's and infants' clothing.

Clothing 333. Draping.

Prerequisite: Clothing 233.

Appreciation and application of the elements of good design in dress

to the selection and adaptation of clothing. The draping of inexpensive material on a dress form.

Clothing 441. Millinery.

The designing, making, and trimming of hats with application to suitability of the individual and costume.

Design 441. Interior Decoration.

Prerequisite: Design 131.

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

Clothing 442. Historic Costume.

Prerequisite: Junior or senior standing.

A survey of historic and national costumes studied in relation to the sources of modern costume. It is intended to be of use to those interested in costume for general use and for the costuming of plays.

Clothing 443. Tailoring.

Prerequisite: Clothing 333.

The study of the economic phases of clothing production and consumption and the influence of commercial conditions upon style and cost. The making of tailored dress and coat.

FOODS AND NUTRITION.

Foods 131. Elementary Course in Foods and Cookery.

Required of all students except those who have completed a satisfactory amount of foods and cookery in an accredited high school.

One hour recitation; four hours laboratory; fee, \$4.00.

Foods 132, 133. Elementary Course in Foods and Cookery.

Prerequisite: Foods 131 or equivalent; Registration Chemistry 141.

A study of food production, preparation, and the elementary facts of nutrition. The laboratory work emphasizes the fundamental principles involved in cooking various types of food. The planning and serving of simple meals will be taught with special attention to nutritive value and cost.

One hour recitation; four hours laboratory; fee, \$4.00 per term.

Foods 231, 232. Meal Planning and Serving.

Prerequisite: Foods 131, 132, 133.

The planning, preparation, and serving of various types of meals.

One hour recitation; six hours laboratory; fee, \$6.00 per term.

Foods 233. Elementary Nutrition.

Prerequisite: Foods 231, 232.

A survey of the essentials of an adequate diet. Practical application of the fundamental principles of nutrition to the planning of dietaries.

One hour recitation; six hours laboratory; fee, \$4.00.

Foods 331. Lunchroom Management.

Prerequisite: Foods 233.

The adaptation of the knowledge gained in foods and nutrition to the feeding of children of school age; the educational, social, and economic phases of school feeding; equipment, marketing, and keeping of accounts.

One hour recitation; six hours laboratory.

Foods 332, 333. Cafeteria Management.

Prerequisite: Foods 331.

For students majoring in institutional management.

Training in the preparation of food in large quantities; study of institutional equipment, organization, cost, and wholesale buying. Experience is gained in the College cafeteria and tea room.

One hour recitation; six hours laboratory.

Foods 334. Demonstration Cookery.

Prerequisite: Foods 331.

Selection and organization of subject matter suitable for demonstrations not only in the teaching field but in home demonstration and boys' and girls' club work. Each student gives at least two lecture demonstrations in class.

One hour recitation; four hours laboratory; fee, \$4.00.

Foods 335. Experimental Cookery.

Prerequisite: Foods 331.

Individual work in experimental cookery dealing with problems of special interest to the students concerned.

One hour recitation; six hours laboratory; fee, \$6.00.

Foods 431. Catering.

Prerequisite: Foods 334, 335.

Includes a study of more unusual and elaborate dishes. Where special functions are served extra hours are required.

Six hours laboratory; fee, \$6.00.

Foods 432. Nutrition.

Prerequisite: Foods 233; Registration Chemistry 437.

A more intensive course in nutrition intended for students with Foods and Nutrition major.

Two hours recitation; four hours laboratory; fee, \$2.00.

Foods 433. Nutrition in Disease.

Prerequisite: Foods 432.

Emphasis is laid upon those diseases the prevention or cure of which is largely influenced by diet. Survey of recent literature in the field of Nutrition.

Three hours recitation.

Foods 434. Health Center Work.

General nutritional problems and public health work. Intended for students who wish to prepare themselves for nutrition work with health organizations.

(Not given in 1926-1927.)

HOME MANAGEMENT.

Home Management 331. Home Nursing.

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 will also be taught. The nursing demonstrations are given by a registered nurse from a Lubbock hospital.

Home Management 332. Household Administration.

A survey of the modern home with emphasis on organization and scientific knowledge as applied to housekeeping problems. Equipment and furnishings, especially of the service rooms of the house, will be discussed—as will also the division of the family income budgets and household accounts.

Three hours per week.

Home Management 431. Family Relationships.

Prerequisite: Senior standing.

A course dealing with the sociological aspects of family life, including the historical development of the family. Problems dealing with family relationships will be discussed.

Home Management 461. Practice House.

Prerequisite: Home Management 331, 332.

The application of the principles of home management. Students will live in the practice house under supervision for a period of twelve weeks.

(Not given in 1926-1927.)

HOME ECONOMICS EDUCATION.

Education H331. Child Care.

Prerequisite: Education.

The course includes a study of the mental and physical care of the child. The class periods will be equally divided between these two phases of child development.

Education H431. Problems in Home Economics Education.

A study of the curricula of various types of schools; consideration of the home project and other problems in home economics teaching; also

a study of the literature of the subject and a brief survey of the development of home economics in the United States.

Education H432. Special Methods in Home Economics.

The organization and methods of teaching home economics. Required of all students preparing to teach.

Education H433. Practice Teaching in Home Economics.

This course will not be given in 1926-1927.

ROSTER OF STUDENTS

1925-1926, FALL AND WINTER TERMS

Abbott, Vernon E.	Floydada, Texas
Abel, John	Slaton, Texas
Adair, Jack	Lubbock, Texas
Adamson, Edwards H.	Mexia, Texas
Affleck, Bert	Childress, Texas
Alexander, Hubert A.	Breckenridge, Texas
Alexander, Jenkins C.	Lubbock, Texas
Alexander, Mayme	Lubbock, Texas
Alexander, Riley A.	Breckenridge, Texas
Aldridge, Wm. Kern	Wellington, Texas
Alford, Bert Monroe	Amarillo, Texas
Alford, Gene M.	Rising Star, Texas
Aldredge, James	Lubbock, Texas
Allen, Andrew R.	Lubbock, Texas
Allen, Pauline	Lubbock, Texas
Allison, Roger	Brownwood, Texas
Alston, Louise	Tatum, New Mexico
Alverson, Alice	Lubbock, Texas
Ancell, Robert	Electra, Texas
Angelo, Andrew	Sabinal, Texas
Anglin, Floy	Tahoka, Texas
Archibald, Elson	Linton, Indiana
Archibald, Robert H.	Linton, Indiana
Armontrout, Willie	Wilson, Texas
Arnett, S. C.	Lubbock, Texas
Arnim, Laurence E.	Sabinal, Texas
Arnold, Fannie Inez	Roscoe, Texas
Ashby, Aubrey	Lorenzo, Texas
Ashley, Lyman O.	McLean, Texas
Atcheson, Barton	Lubbock, Texas
Atcheson, James E.	Lubbock, Texas
Aterre, Hazelle	Lubbock, Texas
Atkins, Kathryn	Lubbock, Texas
Avery, Buford	Lubbock, Texas
Axtell, Harry F.	Dimmitt, Texas
Azbell, Roy B.	Winnsboro, Texas
Backenstoss, Clyde	Lubbock, Texas
Bagley, Mildred	Roaring Springs, Texas.
Baker, Gladys	Shallowater, Texas
Ballenger, Mrs. C. M.	Lubbock, Texas
Banks, Mrs. E. L.	Lubbock, Texas
Barham, Marion	Lubbock, Texas
Barnard, Pat	Shallowater, Texas
Barnhart, Annette	Childress, Texas
Barr, Velma	Cross Plains, Texas
Barron, Hayden	Lamesa, Texas
Bartley, Allene	Cone, Texas
Bateman, Elbert	Lubbock, Texas
Batton, Ceril	Spearman, Texas
Bauer, Milton	Nixon, Texas
Beard, Helen	Memphis, Texas
Beard, Maurine	Lubbock, Texas
Beatty, Allen	Palestine, Texas
Beatty, Mrs. Geo. L.	Lubbock, Texas
Bedford, Mrs. Margaret	Lubbock, Texas
Bell, Clabourne J.	Roaring Springs, Texas
Bell, Margaret	Brownfield, Texas
Bellah, Mary Lena	Lubbock, Texas
Belsher, Lula	Lubbock, Texas
Bender, Thelma May	Lubbock, Texas

Benedict, Horace	Knox City, Texas
Benedict, Ruth	Knox City, Texas
Bennett, Beecher	Snyder, Texas
Benson, Fitz	Hale Center, Texas
Benson, Henry	Lubbock, Texas
Benson, W. D.	Lubbock, Texas
Bigby, Nellie	Ballinger, Texas
Bigby, Thelma	Ballinger, Texas
Biggers, James	Dallas, Texas
Bingham, Alfred	Texico, New Mexico
Binnion, T. M.	Sherman, Texas
Bivins, Duce D.	Littlefield, Texas
Blackburn, Willis	Shamrock, Texas
Blackstock, Lucile	Brownfield, Texas
Blair, Richard W.	Lubbock, Texas
Blake, Dal E.	Vernon, Texas
Board, Robert M.	McKinney, Texas
Bolick, Cordia	Bonham, Texas
Bolton, Elizabeth	Becton, Texas
Bond, Jack P.	Terrell, Texas
Boone, James R.	Olton, Texas
Bostick, Lecil	Cisco, Texas
Bourland, Hugh	Vernon, Texas
Bovell, W. T.	Tahoka, Texas
Bowlin, Leona	Lubbock, Texas
Boyd, Edward P.	Rochelle, Texas
Boyd, Egbert	Plainview, Texas
Boyd, Howard	Henrietta, Texas
Boyd, J. C.	Plainview, Texas
Boyd, John	Hamlin, Texas
Boyd, Norma	Lubbock, Texas
Boyd, Raymond J.	Lubbock, Texas
Boyd, Ruby	Gone, Texas
Boyd, Ruth E.	Levelland, Texas
Boyett, John L.	Fort Worth, Texas
Bradshaw, Arnold Grant	Weatherford, Texas
Brady, Barney	Amarillo, Texas
Brame, Arden H.	Llano, Texas
Branch, Ed Guy	Stiles, Texas
Brandon, Brock	Marshall, Texas
Brazil, Jack	Goodlett, Texas
Breckon, Janice	Seminole, Texas
Bridges, Lawrence	Glenrose, Texas
Bridges, L. F.	Sulphur Springs, Texas
Bridges, Marvin G.	Hale Center, Texas
Brock, Vera	Lubbock, Texas
Brodie, J. T.	Canadian, Texas
Brooks, Dawse L.	Vernon, Texas
Brooks, Lester E.	Lubbock, Texas
Brown, Agnes K.	Clovis, New Mexico
Brown, A. W.	Clovis, New Mexico
Brown, Byron	Channing, Texas
Brown, Clyde	Lubbock, Texas
Brown, Frank L.	Plainview, Texas
Brown, Philip Osborne	San Saba, Texas
Brown, Stanley	Irving, Texas
Brown, Sterling	Lubbock, Texas
Brown, Xen	Lubbock, Texas
Brownlie, John Paul	Hope, New Mexico
Bruce, Guy L.	Desdemona, Texas
Bruner, Hazel	Slaton, Texas
Bryant, Vivian	Lubbock, Texas
Brymer, Aubrey	Uvalde, Texas
Buchanan, George O.	Midland, Texas
Buchanan, Warner	Goodlett, Texas

Buckner, Mrs. Mary Dale	Lubbock, Texas
Bucy, Lanham M.	Rising Star, Texas
Burchfield, Rupert	Slaton, Texas
Burckhart, Wayne	Tahoka, Texas
Burdette, Robert	Goldthwaite, Texas
Burkett, Malcolm	Henrietta, Texas
Burleson, Mrs. Lucile	Ropesville, Texas
Burns, Robert L.	Dallas, Texas
Burran, Oneta	Booker, Texas
Burran, Mrs. Vivian C.	Lubbock, Texas
Burroughs, Charm	Fort Worth, Texas
Burroughs, John H.	Lubbock, Texas
Burroughs, Orval N.	Lubbock, Texas
Burton, Zeland Wanda	Lubbock, Texas
Bussey, Clinton	Lubbock, Texas
Butler, Mrs. Milton	Lubbock, Texas
Cadenhead, Ethel	Lubbock, Texas
Cadenhead, Thomas	Lubbock, Texas
Cagle, Bertha	Lubbock, Texas
Callaway, Parham C.	Itasca, Texas
Calley, Elva	Shallowater, Texas
Calley, Margaret	Shallowater, Texas
Calvert, J. Booth	Fort Worth, Texas
Camp, Mrs. E. W.	Lubbock, Texas
Camp, Edmond W., Jr.	Lubbock, Texas
Camp, Jack	Pecos, Texas
Campbell, Lynda	Sudan, Texas
Campbell, R. D.	Lubbock, Texas
Candler, Robert J.	Coleman, Texas
Capers, Ewing A.	Dallas, Texas
Carlton, Floyd	Hamlin, Texas
Carmichael, Bernis W.	Kenna, New Mexico
Carpenter, Thomas R.	Lubbock, Texas
Carpenter, Wm. H.	Sudan, Texas
Carroll, H. B.	Lubbock, Texas
Carroll, J. D.	Cisco, Texas
Carruth, Carrie Lee	Sudan, Texas
Carter, Edith	Lubbock, Texas
Carter, Guy	Grady, New Mexico
Cartwright, Lucille	Trickham, Texas
Cary, Tracy Jewel	Pampa, Texas
Casey, Clyde N.	Lubbock, Texas
Castleberry, Mrs. Mary	Lubbock, Texas
Cavett, Richard	Lubbock, Texas
Caywood, Eynon A.	Lamesa, Texas
Cecil, J. G.	Dallas, Texas
Chadd, Fleta Bell	Lubbock, Texas
Champlin, Martha	Lubbock, Texas
Chaney, Royce E.	Sulphur Springs, Texas
Chapman, Thomas P.	Vernon, Texas
Chiple, Anna	Lubbock, Texas
Christian, Clarion	Lubbock, Texas
Christian, Thomas	Dallas, Texas
Christian, Mrs. Vivian	Lubbock, Texas
Clapp, Milton B.	Kerrville, Texas
Claunch, Barton F.	Silverton, Texas
Cleavinger, Elmer	Spring Lake, Texas
Cline, Alice Lorraine	Yoakum, Texas
Clingingsmith, Johnny F.	Nacoma, Texas
Cloud, Jim	Spur, Texas
Cobb, Daniel Gordon	Seminole, Texas
Cobb, Dennise	Seminole, Texas
Coffee, Richard	Albany, Texas
Coffer, Claude M.	Amherst, Texas

Coker, Mathais F.	Athens, Texas
Cole, Clarence A.	Valera, Texas
Cole, William F.	Blooming Grove, Texas
Coleman, Allen	Vernon, Texas
Coleman, Garland E.	Whitney, Texas
Coleman, Irwin W.	Vernon, Texas
Collins, Anna Belle	Channing, Texas
Collins, Charles	O'Donnell, Texas
Collins, John L.	Ranger, Texas
Collins, Ralph	Sterling City, Texas
Colvin, Charles	Hico, Texas
Combest, Wm. L.	Olton, Texas
Cone, Mrs. Fern	Lubbock, Texas
Coody, Ray Kirk	Thurber, Texas
Cook, Anna	Post, Texas
Cook, Gordon	Post, Texas
Cook, Inez	Lubbock, Texas
Cook, Selya J.	Farmersville, Texas
Cooke, James B.	Spearman, Texas
Cooper, Harold A.	Coleman, Texas
Cooper, Henry P.	Lubbock, Texas
Cooper, Katherine	Littlefield, Texas
Cooper, Wm. Jakie	Amarillo, Texas
Copeland, F. C.	Lubbock, Texas
Copeland, Mrs. O. R.	Ropesville, Texas
Corbin, Gordon M.	Lamesa, Texas
Corley, Vaughn D.	Lubbock, Texas
Cornelius, Fred	Amarillo, Texas
Cowan, Alma Cleo	Lorenzo, Texas
Cowan, Mary	Osceola, Texas
Cox, Charles C.	Ft. Stockton, Texas
Cox, James W.	Plains, Texas
Craddock, Bill H.	Strawn, Texas
Craft, Dale	Kempner, Texas
Craig, Levy	Marshall, Texas
Craver, Clyde R.	Yantis, Texas
Crawford, Glenda	Lubbock, Texas
Crawford, Iris	Lubbock, Texas
Crawford, Melba	Lubbock, Texas
Crawford, Vernon	Big Spring, Texas
Crawford, Willie	Lakeview, Texas
Cregg, Carl Patterson	Enloe, Texas
Cross, Loy B.	Lubbock, Texas
Crouch, Ira Mary	Wortham, Texas
Crouch, Lou	Wortham, Texas
*Crow, George W.	Haskell, Texas
Crump, Mamie	Shallowater, Texas
Cude, Mrs. Gusceita	Lubbock, Texas
Cummins, G.	Uvalde, Texas
Cummins, Frances Eloise	Lubbock, Texas
Curry, Brandon	Baird, Texas
Curry, E. Avery	Hollis, Oklahoma
Curry, R. Lee	Hollis, Oklahoma
Curry, Wm. Gates	Lubbock, Texas
Dailey, Harvey	Floydada, Texas
Dalrymple, Irma	Lubbock, Texas
Dalton, L. Currie	Happy, Texas
Darsey, Earl N.	Lubbock, Texas
Davis, Dick D.	Spur, Texas
Davis, Edna Pearle	Lubbock, Texas
Davis, Jack	Hollis, Oklahoma
Davis, J. R.	Brady, Texas
Davis, Lucile	Amarillo, Texas
Davis, Sterling	Spur, Texas

*Deceased.

Day, Raymond	Anson, Texas
Dean, Bernard	Lubbock, Texas
Dean, C. T.	Ranger, Texas
Dean, Raymond	Sudan, Texas
Dean, Travis	Hamlin, Texas
Deese, Cecil	Lubbock, Texas
Denison, J. Russell	Lorenzo, Texas
Denton, Percy L.	Lubbock, Texas
Devenport, Elmer	Earth, Texas
Dial, F. Marshall	Amarillo, Texas
Dickenson, Olton O.	Olton, Texas
Dickson, Maynor J.	Milford, Texas
Dickson, Wiley	Lubbock, Texas
Dixon, Rev. Silas	Littlefield, Texas
Doak, Mrs. D. B.	Lubbock, Texas
Dow, Mrs. J. L.	Lubbock, Texas
Dow, Melvin N.	Lubbock, Texas
Duncan, Jeff L.	Brownwood, Texas
Duncan, Mark	Floydada, Texas
Dunlap, Elvin L.	Sweetwater, Texas
Dunlap, Willie R.	Lorenzo, Texas
Dyer, Wilma	Lubbock, Texas
Eagan, Ethridge W.	Lubbock, Texas
Eagan, J. Vernon	Lubbock, Texas
Earl, Lloyd	Fort Worth, Texas
Easley, W. Leslie	Dublin, Texas
Easter, Edith	Lubbock, Texas
Eaves, Mrs. C. D.	Lubbock, Texas
Edelmon, Wilburn	Plainview, Texas
Edwards, Mary F.	Floydada, Texas
Eichler, John H.	Idalou, Texas
Eldridge, Franklin G.	Tahoka, Texas
Eldridge, William E.	Tahoka, Texas
Elliott, Roy F.	Winnsboro, Texas
Elliott, William J.	Spur, Texas
Elliott, William M.	Corsicana, Texas
Ellis, Otis	Lubbock, Texas
Ellison, E. Caloway	Lubbock, Texas
Enlow, Florence E.	Lubbock, Texas
Ervin, Harlan	Ranger, Texas
Ervin, Homer T.	Goldthwaite, Texas
Erwin, Milton	Hamlin, Texas
Erwin, Mrs. R. D.	Lubbock, Texas
Eubank, Rue	Seminole, Texas
Eubank, Vernon E.	Whitney, Texas
Eubanks, Mrs. Pearl	Lubbock, Texas
Eudaly, Sheldon	Pecos, Texas
Evans, Mrs. A. W.	Lubbock, Texas
Ewing, Bryant J.	Post, Texas
Ezell, Alvin M.	Wortham, Texas
Fagg, Charles C.	Eastland, Texas
Fann, Blanche	Lubbock, Texas
Fansler, Hershel I.	Lubbock, Texas
Farris, E. D.	Lubbock, Texas
Fellows, Frank	Plainview, Texas
Ferguson, Frances	Hale Center, Texas
Pickas, Addie	Lubbock, Texas
Fields, Jake W.	Winters, Texas
Fikes, Heasley	Victoria, Texas
Fikes, Ralph W.	Granger, Texas
Fikes, Scott	Granger, Texas
Finley, Jim H.	Eldorado, Texas
Fish, Homer B.	Matador, Texas
Fisher, Lynette	Junction, Texas

Flanigan, James M.	Midland, Texas
Flanagan, Raymond	Lubbock, Texas
Fletcher, C. Frank	Plainview, Texas
Flippen, James H.	Coleman, Texas
Florence, Earle	Slaton, Texas
Florence, Julia Alice	Slaton, Texas
Ford, Dimple F.	Lubbock, Texas
Ford, Mrs. G. L.	Lubbock, Texas
Forkner, John R.	Memphis, Texas
Forson, Elizabeth	Lubbock, Texas
Foster, E. J.	Lockney, Texas
Foster, Leslie J.	Sabinal, Texas
Fowler, Owen Murle	Lubbock, Texas
Fox, Lige M.	Bradshaw, Texas
Franklin, Homer	Tahoka, Texas
Frazier, I. Kendrick	Rusk, Texas
Frederick, Houston	Blooming Grove, Texas
Freeman, Winton	Lubbock, Texas
French, Michael G.	Slaton, Texas
Fromm, Ulysses	Childress, Texas
Frost, Marvin F.	Big Spring, Texas
Fry, Robert F.	Canadian, Texas
Gaddy, Lyndell E.	Sudan, Texas
Gainer, Arch	Rochelle, Texas
Galloway, Tom	Friona, Texas
Gambrell, Ernest C.	Olney, Texas
Gammill, John	Lubbock, Texas
Garner, C. Raymond	Houston, Texas
Gathings, Hattie Sue	Lubbock, Texas
Gathings, Willie J.	Lubbock, Texas
Geries, Kent	Farwell, Texas
Germany, T. C.	Mercury, Texas
Germany, Sterling A.	Dallas, Texas
Gibbs, Mabel L.	Ropesville, Texas
Gibner, George P.	Spearman, Texas
Gibson, Robert E.	Post, Texas
Gideon, Erma F.	Lubbock, Texas
Gilbert, Gladys	Spur, Texas
Gilbert, Wendell	Lubbock, Texas
Gilbreath, Vance H.	Kempner, Texas
Gilkerson, Afton	Lubbock, Texas
Gilkerson, George	Lubbock, Texas
Gilkerson, Johnnye	Lubbock, Texas
Gist, J. T.	Colorado, Texas
Godwin, Tom	Brownwood, Texas
Golden, Carl C.	Snyder, Texas
Gordon, W. Harold	Lubbock, Texas
Graham, Neville B.	Guion, Texas
Graham, Tom T.	McGregor, Texas
Grant, Forrest T.	Memphis, Texas
Grant, Mrs. Lillian	Woodward, Oklahoma
Green, Fred L.	Crosbyton, Texas
Green, Jewell J.	Lubbock, Texas
Green, Marion F.	Wellington, Texas
Green, Mrs. Miriam C.	Lubbock, Texas
Greer, Arthur W.	Bellevue, Texas
Gregory, Christine	Vernon, Texas
Griffin, Noble	Brownwood, Texas
Griffith, Paul W.	Salado, Texas
Grimes, Curtis	Lubbock, Texas
Grinke, Anthony	Henrietta, Texas
Grissom, Aura Mae	Lubbock, Texas
Groves, R. T.	Lubbock, Texas
Groves, Mrs. R. T.	Lubbock, Texas
Guy, Viola	Wilson, Texas

Hale, Everett E.	Megargel, Texas
Hale, James E.	Thorp Springs, Texas
Hall, Jesse H.	Ralls, Texas
Hall, Wm. Max.	San Angelo, Texas
Hallmark, George B.	Belton, Texas
Hallmark, Sam Audley	Knox City, Texas
Halsell, Naomi	Lubbock, Texas
Hamblin, Vera Lee	Lorenzo, Texas
Hamilton, J. B.	McKinney, Texas
Hamilton, Mrs. J. E.	Lubbock, Texas
Hampton, George B.	Vernon, Texas
Hancock, Jess.	Vernon, Texas
Hancock, Tencye	Wilson, Texas
Hancock, Willie Ottis	Lubbock, Texas
Hankins, James G.	Lubbock, Texas
Hankins, Melville E.	Lubbock, Texas
Hankins, Weldon F.	Lubbock, Texas
Haney, Gertrude	Spearman, Texas
Harber, Thomas W.	Munday, Texas
Hardesty, Rudd E.	Abernathy, Texas
Hardin, Louise	Stamford, Texas
Harding, Nora Alma	Big Spring, Texas
Hardwick, Cecil	Eufonea, Oklahoma
Hargus, June B.	Eastland, Texas
Harris, James C.	Lubbock, Texas
Harris, Jess E.	Royse City, Texas
Harris, James M.	Merkel, Texas
Harris, L. D.	Lockney, Texas
Harrison, Netty Lynn	Lubbock, Texas
Hart, Wm. A.	Lubbock, Texas
Hastings, Robert L.	Lubbock, Texas
Hasty, Thomas B.	Leonard, Texas
Hatchett, Charles T.	Lamesa, Texas
Hatchett, Edward H.	Tahoka, Texas
Hawkins, Elmer	Wilson, Texas
Hawthorne, Willie Mae	Lubbock, Texas
Hayhurst, Bob	Chillicothe, Texas
Hayhurst, Marlin R.	Chillicothe, Texas
Heard, Charles Lee	Seminole, Texas
Hearne, Katherine Lucille	Seagraves, Texas
Heath, James F.	Crosbyton, Texas
Hefner, Juanita	Lubbock, Texas
Hefner, Lloyd	Lubbock, Texas
Heierman, Catherine	Imperial, Texas
Hemphill, Kenneth	Littlefield, Texas
Henderson, Mrs. G. C.	Ropesville, Texas
Henderson, A. Neil	Sulphur Springs, Texas
Hendrick, W. P.	Lubbock, Texas
Hendrix, Winnie Belle	Southland, Texas
Henry, Mrs. Anne	Lubbock, Texas
Henry, Kenneth	Floydada, Texas
Hensley, Carl	Lubbock, Texas
Hensley, Pearl	Lubbock, Texas
Henson, Douglas	Quanah, Texas
Hermes, Mrs. Loretta	Lubbock, Texas
Herring, Gladstone W.	Comanche, Texas
Herrod, James T.	Crosbyton, Texas
Hester, Elbert K.	Lubbock, Texas
Hester, Elmer Webb	Lubbock, Texas
Hewett, Allen June	Plainview, Texas
Hicks, Dolph L.	Lubbock, Texas
High, James F.	Lubbock, Texas
Hill, Mae	Seminole, Texas
Hill, Ruby K.	Lubbock, Texas
Hill, Volney	Milford, Texas

Hiner, Marguerite	Farwell, Texas
Hines, Mrs. Myra	Lubbock, Texas
Hinton, Virda	Lubbock, Texas
Hitt, Humbert A.	Gordon, Texas
Hobby, Virgil E.	Carthage, Texas
Hodel, Walter	Lockney, Texas
Hodges, James Allen	Vernon, Texas
Hodges, Mrs. Lettie Mae	Lubbock, Texas
Hoff, Barnes B.	Yorktown, Texas
Holcomb, Charles A.	Lubbock, Texas
Holder, Perry	Raymondville, Texas
Holeman, Clarence E.	Lubbock, Texas
Holland, Mrs. Alberta	Lubbock, Texas
Holland, Colene	Lubbock, Texas
Holt, Russell	Lubbock, Texas
Honey, Floyd	Lubbock, Texas
Honey, Glenys	Lubbock, Texas
Hooks, Wayne L.	Turkey, Texas
Hooper, Clyde C.	Devol, Oklahoma
Hope, Claude C.	Sweetwater, Texas
Horn, Chester	O'Donnell, Texas
Horn, Ruth	Lubbock, Texas
Horn, Walter G.	Athens, Texas
Horne, Ogden	Blackwell, Texas
Houghton, Edna N.	Canyon, Texas
Houston, C. L.	Lamesa, Texas
Howard, Eula	Lubbock, Texas
Howell, Jack D.	Fort Worth, Texas
Howell, Weldon	Brownfield, Texas
Hubbert, Fred O.	Bend, Texas
Hubbert, Martha	Lubbock, Texas
Hudgins, James W.	Pecos, Texas
Hudgins, J. B.	Abernathy, Texas
Hufstедler, Auvana	Lubbock, Texas
Hughes, Maurine	Lubbock, Texas
Hukel, Texie	Crosbyton, Texas
Humphries, James A.	Ropesville, Texas
Humphries, Mrs. J. A.	Ropesville, Texas
Hunt, Herbert K.	Claude, Texas
Hunter, John	Woodville, Texas
Hunter, Melvern	Plainview, Texas
Hunter, Nora Leta	Claude, Texas
Hussey, Annette	Lubbock, Texas
Hutchinson, Mrs. J. T.	Lubbock, Texas
Hutson, Alton W.	Lubbock, Texas
Ingram, Charlie	McGregor, Texas
Inman, Fred A.	Lubbock, Texas
Ireland, Bailey	Shallowater, Texas
Isaacs, Albert C.	Lubbock, Texas
Jackson, Archie D.	Guion, Texas
Jackson, Ben	Lubbock, Texas
Jackson, J. W.	Lubbock, Texas
Jackson, Stella B.	Lubbock, Texas
James, George	Lubbock, Texas
Jameson, Roy	Floydada, Texas
Jarvis, Murray Glenn	Junction, Texas
Jenkins, Daniel Webster	Floydada, Texas
Johns, Nelson	Georgetown, Texas
Johnson, Fred	Cameron, Texas
Johnson, Mary Alice	Lubbock, Texas
Johnson, Mildred Corinne	Slaton, Texas
Johnson, Ralph Chalmers	Sweetwater, Texas
Johnson, Ruth	Lubbock, Texas
Johnson, Virgie	Lubbock, Texas

Johnston, Claude	South Bend, Texas
Johnston, Joe Tant	Snyder, Texas
Jones, Allyne	Seagraves, Texas
Jones, E. Bedford	Eastland, Texas
Jones, Lula Frances	Pearl, Texas
Jones, Virgil	Lubbock, Texas
Jones, Willie	Abernathy, Texas
Jones, Wynona	Roscoe, Texas
Jordan, Eugene Elkin	Amarillo, Texas
Jordan, Mrs. Joe Billie	Amarillo, Texas
Jordan, Nick	Plainview, Texas
Jordan, William Edd	Josephine, Texas
Keith, Dick	Van Alstyne
Keller, Aubrey Marion	Hope, New Mexico
Kelley, Anna Lou	Becton, Texas
Kelly, James T.	Lubbock, Texas
Kemp, Faye	McCauley, Texas
Kendrick, James L., Jr.	Amarillo, Texas
Kennedy, Garwood A.	Lubbock, Texas
Kershner, O. Randal	Lubbock, Texas
Key, Phillip Marshall	Lubbock, Texas
Key, Ray Arthur	Vernon, Texas
Keys, Rex	Hollis, Oklahoma
Killin, Hugh Edward	Lubbock, Texas
King, Alpha	Floydada, Texas
King, Ranson	Brownfield, Texas
King, Thomas Ogden	Lubbock, Texas
Kirby, Turner	Jericho, Texas
Kirk, Robert P.	Ballinger, Texas
Kirkland, Ione	Slaton, Texas
Kitchen, Ellis Edward	Lubbock, Texas
Kizziar, Quinley	Floydada, Texas
Klett, Mrs. E. L.	Lubbock, Texas
Knowles, Sidney	Breckenridge, Texas
Koen, Ottis Vaughn	Lubbock, Texas
Kral, Edward E.	Longworth, Texas
Krueger, Mrs. J. T.	Lubbock, Texas
Kyle, Charles Samuel	Becton, Texas
Lahm, Louis Elmer	Amarillo, Texas
Langston, William Harlan	Shallowater, Texas
Lanham, Stella May	Slaton, Texas
Lankford, Wilbert Glenn	Ballinger, Texas
Latimer, Frieda	Levelland, Texas
Latimer, Laura	Levelland, Texas
Leach, Mary	Lubbock, Texas
Leaverton, David Nunn	Lubbock, Texas
Ledbetter, Wade O.	San Saba, Texas
Ledbetter, Zabatus Delbert	San Saba, Texas
Lee, Claude	Cone, Texas
Lee, Mrs. Eda	Shallowater, Texas
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