
Bulletin of
TEXAS TECHNOLOGICAL COLLEGE

Vol. XXVI

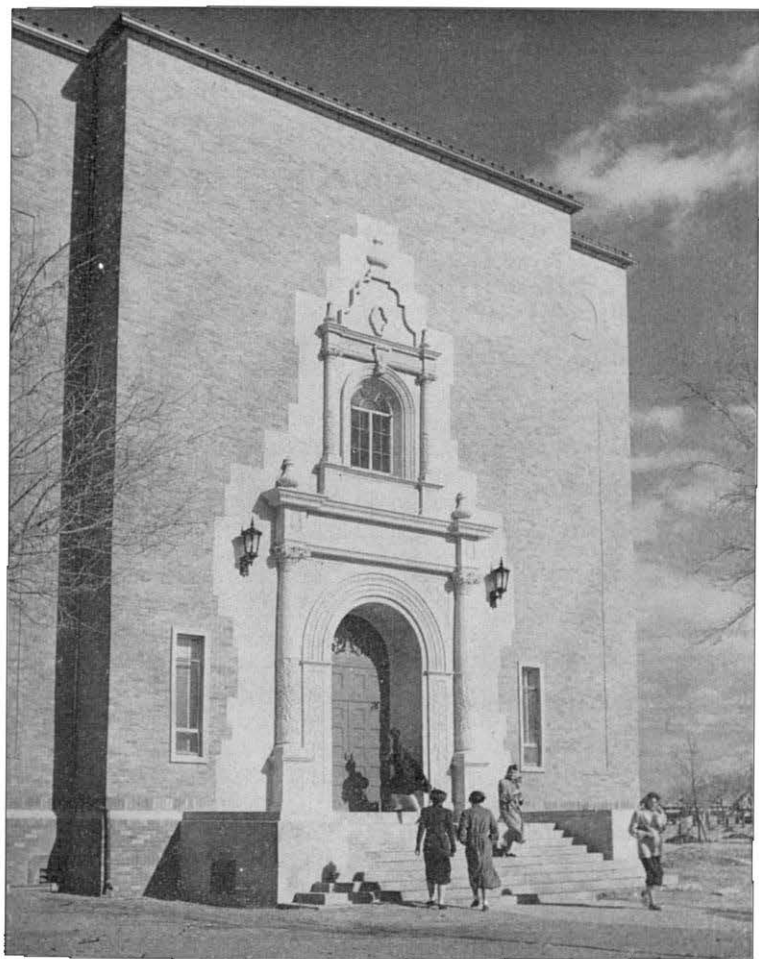
February, 1950

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SUMMER SESSION
1950



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The recently-completed Texas Tech Museum, which will be dedicated in the fall of 1950 as a part of Tech's 25th Anniversary celebration.

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CALENDAR SUMMER SCHOOL 1950

First Term

- May 31 Wednesday. Dormitories open at noon for room occupancy at 9:00 A.M.
- June 1 Thursday. Summer school begins. Registration for first term. Breakfast served as first meal in dormitories.
- June 2 Friday. Classes begin 7:40 A.M.
- June 5 Monday. Last day to register for first term. Late registration fee charged on this day. Last day to add a course for the first term.
- June 10 Saturday. Last day in which student may petition to drop a course without grade penalty.
- July 4 Tuesday. American Independence Day, a holiday.
- July 5 Wednesday. Classes resume, 7:40 A.M.
- July 11, 12 Tuesday and Wednesday. Final examinations for first term.
- July 12 Wednesday. First term ends.

Second Term

- July 13 Thursday. Registration for second term.
- July 14 Friday. Classes begin 7:40 A.M.
- July 17 Monday. Last day to register for second term. Late registration fee charged on this day. Last day to add a course for second term.
- July 22 Saturday. Last day for a student to petition to drop a course without grade penalty.
- August 9 Wednesday. Last day for instructor's filing with Registrar correspondence course grades for candidates for graduation on August 23. Students should complete final examinations in time to be mailed to instructor by August 1.
- August 19 Saturday. Last day for submitting completed copies of master's theses.
- August 21, 22 Monday and Tuesday. Final examinations for second term.
- August 23 Wednesday. Meeting of Divisional Faculties to approve candidates for degrees, 8:00 A.M.
- August 23 Wednesday. Second term ends. Summer school closes. Commencement, 8:00 P.M.

ORGANIZATION OF THE COLLEGE

DIVISIONS AND DEPARTMENTS

Agriculture

- Agricultural Economics
(Rural Sociology)
- Agricultural Education
- Animal Husbandry (Poultry
Husbandry, Veterinary
Science)
- Dairy Manufactures
- Plant Industry (Agricultural
Engineering, Agronomy,
Horticulture)

Arts and Sciences

- Biology (Bacteriology, Botany,
Zoology)
- Chemistry
- Economics
- Education and Psychology
- English
- Foreign Languages, (French,
German, Greek, Latin, Por-
tuguese, Spanish)
- Geology (Geography)
- Government
- History and Anthropology
- Journalism
- Mathematics (Astronomy)
- Music and Band
- Philosophy and Sociology
- Physical and Health Education
- Physics
- Pre-professional courses in
Medicine, Dentistry, Pharm-
acy, Law
- Speech
- Also courses in Biblical
Literature

Business Administration

- Accounting and Finance
- Economics and Management
- Marketing and Secretarial Ad-
ministration

Engineering

- Architecture
- Chemical Engineering
- Civil Engineering
- Electrical Engineering
- Engineering Orientation
- Industrial Engineering and
Engineering Drawing
- Mechanical Engineering
- Petroleum Engineering
- Textile Engineering

Home Economics

- Applied Arts
- Child Development and
Family Relations
- Clothing and Textiles
- Foods and Nutrition
- Home Economics Education
- Home Management
- Institutional Management

Graduate

- Master of Arts
- Master of Business Adminis-
tration
- Master of Education
- Professional Degrees in En-
gineering
- Master of Science

Military Science and Tactics (ROTC)

- Basic and Advanced
- Air Force
- Engineering
- Infantry
- Signal Corps

Extension

- Correspondence
- Extension
- Lecture
- Motion Picture

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- GEORGE FREDERICK WARN, B.A., M.S., Assistant Professor of Geology.
- JAMES ARTHUR WATSON, JR., B.A., Ph.D., Assistant Professor of Chemistry.
- MARGARET WATSON WEEKS, B.S., M.S., Dean of Home Economics, Professor of Foods and Nutrition and Head Department of Home Management.
- GRACE PLEASANT WELLBORN, B.A., B.S., M.A., Instructor in English.
- MARY ALMA WELLS, B.A., M.A., Instructor in English.
- GEORGE ARTHUR WHETSTONE, B.S., M.S., Ph.D., Associate Professor of Civil Engineering.
- HAROLD NORTON WHITE, B.A., M.A., Assistant Professor of English.
- WILLIAM E. WHITTINGTON, JR., B.B.A., M.B.A., Assistant Professor of Accounting and Finance.

THOMAS FERDINAND WIESEN, B.S., M.B.A., Professor and Head Department of Economics and Management.

DEWEY O. WILEY, B.Mus. D.Mus., Professor of Music and Director of Bands.

FLOYD LEWIS WILLIAMS, B.S. M.E., M.S. M.E., Associate Professor of Mechanical Engineering.

JUDDIE JOHNSON WILLINGHAM, B.S., M.S., Ph.D., Professor and Head Department of Dairy Manufactures.

RUTH DONALD WILSON, B.A., M.A., Instructor in English.

HORACE EUGENE WOODWARD, JR., B.A., M.A., Assistant Professor of Mathematics.

WARREN WATSON YOCUM, B.S., M.A., Ph.D., Professor of Horticulture.

ARTHUR WESLEY YOUNG, B.S., M.S., Ph.D., Professor of Agronomy and Head Department of Plant Industry.

GENERAL INFORMATION

Location

Civic-minded Lubbock residents like to refer to their hometown as "The Hub of the Plains." The slogan is appropriate. It is in this city of 72,000 that Texas Technological college is located. Lubbock is in the heart of the South Plains, some 200 miles from the northern state line in the Panhandle and 400 miles northwest of the state capital.

The city itself is a growing, progressive community noted for its excellent churches, public schools, hotels and shopping district. One interstate busline, two railroads and three airlines serve the city.

History

Texas Technological College, a state-supported coeducational college, was established by an act of the Thirty-Eighth Legislature of the State of Texas in 1923. The first buildings were erected and opened to students on September 30, 1925.

Since its opening, five administrations have served the college. The present president, Dr. D. M. Wiggins, was inaugurated in 1948. A nine-member Board of Directors is appointed by the Governor of Texas for six-year terms.

During the 1949-50 fall semester, 5,844 persons were enrolled at the college.

The year 1950 marks the Silver Anniversary of the college. During the year appropriate celebrations are contemplated to re-emphasize the college's contribution to the state and nation.

Campus

The college is located on the western edge of Lubbock and covers an area of 2,000 acres. Three hundred acres are covered by the main campus, while the remainder is devoted to research and experimentation in the Division of Agriculture.

Permanent buildings have been designed in the Spanish renaissance motif. They include an Administration Building, as well as structures for Agriculture, Home Economics, Journalism, the Library, Chemistry, Engineering, Textile Engineering, Utilities and the Texas Tech Museum. Further expansion is now under way.

Other campus buildings include the Gymnasium, Agriculture pavilion, Bookstore, eight dormitories, Extension, practice home, Petroleum Engineering, Speech, Jones Stadium (capacity 16,500) and a number of temporary buildings.

THE SUMMER SESSION

At Texas Technological College the summer session is an integral part of the year-round program. It is designed for particular groups of students, and the facilities of the entire college are available. The faculty of regular staff members is augmented by visiting lecturers and professors. All classrooms, laboratories, and the college library are at the disposal of the summer school.

The 1950 summer session is planned especially for the following groups:

1. *Entering Freshmen.* High school graduates who wish to accelerate their college programs may do so by entering college at the beginning of the summer session rather than waiting for the fall semester. A well-rounded freshman program is offered in all departments open to freshmen. High school graduates who contemplate the study of engineering are encouraged to attend summer school to remove conditions in entrance units (see Admission to the Division of Engineering with Conditions). Entrance conditions not removed in summer school will delay the student's ultimate graduation.
2. *Students of the regular session.* Students of the long session will find the summer school profitable for making up courses.
3. *Teachers in the public schools.* The shortage of teachers in the public schools has caused many people to enter or re-enter the profession to help in the emergency. Many have felt the need for further training in order to continue teaching. The summer school offers opportunity to meet those needs both at the undergraduate and graduate levels.
5. *Graduate students.* Full graduate work will be offered in the summer session, leading to the Degrees Master of Arts, Master of Science, and Master of Education. A special bulletin on graduate studies is available and will be mailed on request.

Admission

Admission policies of the long session will apply to the summer school. Because of qualitative admission requirements, all new students must present transcripts of former records as a basis for admission. Obviously students may not be admitted without transcripts as special summer school students.

Admission by High School Certificate. The first requirement for admission into Texas Technological College is graduation from an accredited high school with a minimum of 15 units of work. No credit may be obtained without graduation. The following units are the uniform requirements for admission to any division of the college.

1. English	3
2. Mathematics	2
Algebra, Geometry, Trigonometry	
3. Two units each from any two of the following groups:	4
Laboratory Sciences	
Social Sciences	
Foreign Languages	
Vocational Home Economics, or Vocational Agriculture	
4. Electives	6
Total	15

Admission to the Division of Engineering with Condition. The study of engineering requires a thorough background of high school preparation in mathematics and physics. A prospective engineering student is strongly urged, therefore, to present three units of mathematics, not including general mathematics or arithmetic. Likewise he should present at least two units in science, one of which should be physics. The student lacking one unit in algebra, geometry, or physics is strongly urged to attend summer school to remove this deficiency rather than waiting for the fall semester. However, opportunity will be offered for the removal of such deficiencies in the first semester of the long session, but this may delay the student's ultimate graduation, as conditions must be removed during the first semester. The student deficient in high school physics may remove this condition by satisfactory completion of freshman college physics (Physics 131-2.)

Admission to the Division of Business Administration. Freshmen students are not admitted to the Division of Business Administration. Only students of sophomore or higher standing are admitted. Freshmen who plan to major in the Division of Business Administration should register in the Division of Arts and Sciences.

Admission from Other Colleges or Universities. A legal resident of Texas who has attended another recognized college or university may be admitted on presentation of an official transcript showing a grade point average of not less than 1.00 (C average) in (1) all courses for which he has been enrolled, or (2) the last two full semesters or their equivalent. Students who, for any reason, are ineligible to continue in the college or university formerly attended cannot be admitted. Transfers from other colleges will not be permitted to register until an official transcript is on file and students are urged to send their records well in advance of registration date. Any excess of grade points on transferred records may not be used to make up a deficiency on grade points in work done at this college.

Admission to the Graduate Division. Graduates of accredited colleges and universities who present satisfactory records may be admitted to the Division of Graduate Studies.

Admission of Special Summer School Students. Because of the quality requirements for admission to any division of the college, students cannot be admitted as special summer school students without transcripts. All students must have transcripts on file before registration.

Fees and Deposits

Payment. All fees and deposits are payable in full at the time of registration. During the summer session, tuition and fees are paid after a student's class schedule is approved by his dean. No refund is made for courses dropped. All checks, money orders, and drafts are accepted subject to final collection.

Registration Fee for Resident Students. For legal resident students of the State of Texas, registration fee for a six-week term is \$17.50. For students who enroll for less than 4 semester hours in any six-week term, the registration fee is \$12.50 per term.

Registration Fee for Non-Resident Students. For non-resident students, the registration fee for a six-week term is \$50. For students who enroll for less than 4 semester hours in any six-week term, the registration fee is \$12.50 per semester hour.

Student Health and Activity Fee. Pursuant to an act of the Texas Legislature, each student enrolled for more than 3 semester

hours is required to pay a student health and activity fee of \$5.00 per six-week term of the summer session. This fee covers recreational activities, health and infirmary service, student publications, and admission to intercollegiate athletic contests. Students enrolled for less than 4 semester hours are not permitted to pay this fee.

Uniform Property Deposit. A uniform deposit of \$7 is required from each student to cover breakage, library fines, or damage to college property or equipment while in the student's use or possession. The unused portion of the deposit is returnable to the student upon withdrawal, or at the close of the term.

Late Registration Fee. Any student who registers after the first day of class work shall be required to pay an additional service charge of \$2.

Summary of Expenses

For Six-Week Term:

Fees, Books, and Supplies

Registration fee (legal resident of Texas).....	\$17.50
Uniform property deposit (refundable).....	7.00
Student health and activity fee.....	5.00
Books and supplies (approximate average).....	12.00
<hr/>	
Total for six-week term.....	41.50
Board and room in college dormitory.....	90.00
Estimated grand total for six week term.....	\$131.50

Engineering students are required to purchase their own drawing equipment, slide rule, etc., which, plus books, cost approximately \$45 for the summer session.

Music Fees For Private Instruction

Private instruction in voice and in instruments is available from members of the music staff. The fees for two lessons per week for six-week summer terms vary according to the selected instructor. The following costs are not covered by the registration

fee. They are payable to the instructor in advance at the beginning of each six-week term:

Cello	\$60.00
Piano	24.00
	33.33
	36.00
Voice	26.66
	33.33
	36.00
Pipe Organ	36.00

Practice room and piano rental payable at the Business Office:

One hour per day per six-week term	\$4.00
Each additional hour	2.00

For string instruments—Inquire of Head of Department.

For wind instruments—Inquire of Director of Band.

Division of Agriculture

The summer session for the Division of Agriculture will include undergraduate courses in agricultural economics, agricultural engineering, agronomy, animal husbandry, dairy husbandry, dairy manufactures, horticulture, and poultry husbandry.

Complete curricula in all phases of technical agriculture will not be available. The curricula, however, are planned to provide instruction for new students, for those desiring to make up back work, for students wishing to accelerate their course of study or to complete requirements for a degree.

Graduate courses in agricultural economics, agricultural education, agronomy, animal husbandry, dairy husbandry, dairy manufactures, horticulture and poultry husbandry are provided for those students desiring to earn a Master of Science Degree.

In arranging the course of study for graduate students, special consideration is given to county agents, teachers of vocational education, and instructors in the Veterans' Training Program.

Division of Arts and Sciences

The course offerings of the departments within the Division of Arts and Sciences have been selected with a two-fold purpose in mind. Inasmuch as the summer session is an integral part of the college year, courses are offered to enable the regular student to continue his program of studies. The entering student can also begin his college work in an orderly manner; hence, courses of all levels from freshman to graduate are included in the summer offerings.

A continuing function of the summer school is to provide

work for those who do not attend the regular session. As usual, the needs of teachers assume a paramount position and the offerings in the fields of education and psychology have been increased to a much greater extent than in preceeding years. The number of advanced courses which may be used by graduate students have been materially strengthened and teachers will find a full program of work leading to both the bachelor's and master's degrees. Particular emphasis will be placed on the Gilmer-Aikin bills so that school administrators and supervisors may receive the most up-to-date instructions available relative to these measures.

Division of Business Administration

Students interested in the field of business who have completed sufficient college work to attain sophomore standing are generally admitted to the Division of Business Administration. A written permit is necessary for a student to transfer from another division. Veteran students who have 26 or more college credit hours should enroll directly in the Division of Business Administration. Students transferring from other schools who have 26 or more college credit hours may enroll directly in the division. Students previously enrolled in business administration during their last semester in this college will be re-admitted directly into the division.

Students enrolling in the Division of Business Administration should choose one of the following majors: accounting, finance, economics, management, office management, marketing, secretarial administration, commercial teaching, international trade, or public administration.

Work is offered in all departments of the division during the summer. Both undergraduate and graduate courses are offered in order that students may work toward or complete the desired degree during the summer.

Division of Engineering

The Engineering Division is offering sophomore and upper level work in architecture, chemical, civil, electrical, industrial, mechanical, and petroleum engineering, as well as freshman and sophomore work in engineering drawing. The courses offered are based on the needs shown by a survey of all students in residence in the fall semester.

All the work of the freshman year in the Division of Engi-

neering will be available. Entering freshmen will devote their time to first semester courses. Any high school graduate who desires to study engineering, but who is deficient in high school algebra, plane geometry, or physics could, with profit, attend the summer session in order to remove these deficiencies.

Students intending to transfer to this college to study engineering may find the summer session of value in order to regularize their schedules for next fall or to take prerequisite subjects. Any freshman or transfer student who desires information not contained in this bulletin should consult our Twenty-Fourth Catalog, or write to the Registrar for information on entrance, or to the Dean of Engineering in regard to his course of study.

Any freshman who has attended during the 1949-50 long session, and who has not completed the work of the freshman year, should plan to take courses which he lacks in the summer session, thus becoming a regular sophomore next fall.

In the Department of Architecture, courses for art teachers will be offered as shown in the list of courses for that department.

Division of Graduate Studies

Texas Technological College is a member of the Southern Conference of Graduate Schools, an organization composed of the 40 highest ranking universities in 15 southern states. This conference maintains minimum standards for all graduate degrees. Texas Technological College conforms to these standards, both as to the quality of its faculty and requirements for the degrees.

Summer session offerings are selected with special regard to the needs of public school teachers. A wide variety of professional courses in the field of education, as well as in the subject matter departments, are given.

Regulations and requirements concerning all phases of graduate work are given in the Graduate Bulletin or in the General Catalog, copies of which may be obtained from the Registrar. Other inquiries may be directed to the Dean of Graduate Studies.

Entrance arrangements to the Division of Graduate Studies should be completed with the Registrar, who is the director of admissions, before the date of registration.

Division of Home Economics

The Division of Home Economics offers work during the summer session for freshmen, sophomore, junior, senior, and

graduate students. Students who wish to complete degree requirements in less than four years may do so by attending summer school. Those now in college may supplement their programs, and entering students will find a full schedule of work offered during both terms of summer school.

Graduate Courses are given special attention and will be offered in both terms of the summer session. Some of these courses are regular six-week courses; others are intensive courses of three weeks' duration. In arranging the graduate program, the needs of home demonstration agents, high school teachers of homemaking, as well as students regularly working towards a graduate degree have been considered.

During the first term special attention will be given to work in family relations. *Dr. Bernice Moore*, Consultant, Homemaking Division, State Board for Vocational Education and the Hogg Foundation for Mental Hygiene, will assist the regular staff and will be available for lectures, conferences, and discussion periods from June 12, to June 21. *Dr. E. L. Koos*, will be at the college June 19, to June 24, and will also help direct the course.

In addition to graduate courses in family relations graduate work will be offered in home economics education, foods and nutrition, and clothing and textiles.

For teachers of homemaking and others desiring work in crafts there will be a special crafts course.

In the second term graduate work in home furnishings, problems in clothing, food preservation, and a special problems course for high school homemaking teachers will be offered.

For additional information not covered in this bulletin, write to the Dean of Home Economics.

Division of Extension

Approximately 270 college courses and 40 high school courses, including both credit and non-credit courses, are offered by correspondence and extension class work for those who are unable to secure classes in residence. Credit courses may count on degrees and teachers' certificates. A list of available courses may be secured upon request.

Approximately 650 16mm. sound or silent educational motion picture films are available for the use of colleges, public schools, county agents, clubs, churches, and other organizations at reasonable rates. A classified descriptive bulletin listing these films will be sent on request.

Undergraduate Degrees

Undergraduate degrees given are: Bachelor of Arts, Bachelor of Business Administration, Bachelor of Science with certain majors in business administration, Bachelor of Science in Agriculture with majors in the various departments, Bachelor of Science in the various fields of engineering, and Bachelor of Science in the various departments of home economics, Bachelor of Architecture, Bachelor of Commercial Art, Bachelor of Science in various sciences, and Bachelor of Science in Education. While all these degrees are standard, the number of semester hours required varies according to the curriculum followed.

Graduate Degrees

The Degrees of Master of Arts, Master of Business Administration, Master of Education, and Master of Science are offered.

The Master of Arts degree may be secured with majors in chemistry, economics, education and psychology, English, foreign language (Spanish), geology, government, history and anthropology, mathematics, and physics. The Master of Science degree may be obtained with majors in any of the departments of the Division of Agriculture; in the Departments of Foods and Nutrition, Clothing and Textiles, and Home Economics Education of the Division of Home Economics; in the Departments of Chemistry, Geology, Mathematics, and Physics in the Division of Arts and Sciences; in the Division of Business Administration; and in the Department of Chemical Engineering in the Division of Engineering. Minor work may be completed in these and all other departments of the college.

Division of Military Science and Tactics

No summer school work will be offered in military science during the 1950 summer session, since most of the Air Force and Army personnel on duty at the college will accompany advanced students to summer camp.

A representative will be on duty in the Military Science Division throughout the summer, however, to interview prospective students and for administrative matters.

Class Work and Routine

Student Load. The normal load for a six-week term is 6 semester hours. In no case will a student be permitted to register for, or secure credit in, more than 14 semester hours in the two terms, including any correspondence work. Students who have

not done work previously in Texas Technological College will regularly enroll for a maximum of 6 semester hours, exclusive of 1-hour physical education courses and 1-hour credit in orientation. Graduate students are limited to 6 hours in either term or a total of 12 hours for the summer session. A senior of superior ability and performance may, with the approval of his dean, enroll for 15 semester hours in the 12-week session if this arrangement will enable him to be graduated at the close of the current summer session. Three of these 15 semester hours may be taken by correspondence, provided registration for same is done at the beginning of the summer session. Not more than 8 semester hours may be taken in residence during any one term.

Auditing Classes. A general provision has been made in the college whereby students may audit classes during the long session by paying a certain fee. However, this does not apply in the summer session and permission may not be granted to audit classes during the summer school. Persons eligible to enroll for classes may have the privilege of enrolling regularly upon the payment of the regular summer school fee.

Class Attendance and Absence. Regular and punctual attendance upon classes, laboratories and other exercises at which the student is due, is required.

Absences are counted from the first meeting of the class regardless of the time when the student enrolls.

Housing Facilities

The cost of regular board and room in the college dormitories, two per room, will be \$90 per term of six weeks, payable in advance. Corner rooms will be \$92.50 for six weeks. There are a few single rooms with bath which may be had at a cost, including board, of \$101.25 for six weeks. Room and meals in the dormitories will be available for married couples without children.

Occupants of the dormitories are expected to furnish pillows, towels, bed linens, blankets, spreads and other personal articles needed. There will be no dormitory linens available for rental.

Casa Linda, the college cooperative house for women, will be open during the first term of the 1950 summer session, providing there is sufficient demand.

For information on off-campus living accommodations inquiries should be directed to the offices of the Dean of Men and the Dean of Women, in which offices arrangements for non-dormitory housing will be approved.

School Administrators' Conference

A conference for public school superintendents, principals, and supervisors will be held at Texas Tech on Tuesday and Wednesday, July 18-19. Panel discussions on vitally important topics will highlight the two-day program. Such topics as the second year under Gilmer-Aikin, building construction and maintenance, up-grading the staff, and problems in public relations will be presented. Visiting specialists on the summer faculty will participate in the panel discussions.

Recreation and Health Service

As has been its policy in the past, Texas Technological College has provided a recreation program adequate to the needs of those who are enrolled for courses for the summer session 1950. For the summer session the Recreation Committee has planned a well-balanced combination of musical numbers, motion pictures, and dances. The objective of this program is to provide adequate and wholesome diversion for enrolled students and the wives and children of married students, with the hope that our summer school will be both constructive and recreational. The complete recreation program is open to all summer school students on the basis of the payment of the activity fee.

Both for organizations and for individuals, facilities for swimming, golf, tennis, and picnics are available at Mackenzie State Park and at Buffalo Lakes.

The activity fee also covers the health service for students enrolled in summer school. The college infirmary, a 20-bed unit, provides an accomodation for those regularly enrolled students ill enough to require constant supervision, and not in such physical condition as to require surgery or the services of specialists. A student judged by the infirmary staff to need such hospitalization may stay in the infirmary for as many as seven days during a term without charge; he will pay a fee to cover cost for each additional day in the infirmary which the staff requires him to stay.

The dispensary will be open to all students for consultation with the staff at regular, announced hours. Emergency cases will be treated at any hour, day or night.

The college requires that students with communicable diseases be isolated until, in the judgment of the college, danger of transmission has passed.

Field Trip to Mexico City

A group study course, Spanish 4310-11, will be offered by Dr. T. Earle Hamilton in Mexico City during the second term of the summer session. The main purpose of the course is to give students and teachers of Spanish and those going into foreign service some experience in international living and a better grasp of the language and civilization of Spanish America. Total expenses of the trip, including tuition, books, meals and lodging, and transportation to and from Mexico City (all except personal purchases) will be approximately \$225. This will include excursions to Puebla, Cuernavaca, Taxco, Amecameca (the volcanoes), Xochimilco and the floating gardens, Alcolman and the Pyramids.

Students will attend the theater, movies, concerts, opera and a bullfight in Mexico City.

Summer Band School

Texas Technological College has maintained a large Summer Band School since the summer of 1934. This feature runs concurrently with the first summer session of the college.

A wide range of courses is offered during this period, and a large staff of instructors augments the regular college staff in making these offerings possible. Dr. A. A. Harding from the University of Illinois will again be a guest conductor and instructor.

Three or more bands will be open to accomodate students at various levels of advancement. Special instructors on all wind instruments will have charge of this phase of instruction; percussion and baton twirling instructors will be available to those interested and pre-college theory and arranging classes will be available to all pre-college students.

For college students, the courses range from freshman to graduate level.

For a folder giving detailed information, address: Director, Summer Band School, Texas Technological College, Lubbock, Texas.

Cotton Classing Short Course

The annual Cotton Classing Short Course, held by the Department of Textile Engineering in cooperation with the United States Department of Agriculture, will be held June 19 to 30.

This course is open to anyone interested in learning the fundamentals of cotton grading and stapling. Specifically designed for

ginners and cotton dealers, this course does not carry college credit, and college admission requirements do not apply to those enrolled for the short course only.

Special Lecturers

Dr. Bernice Moore and Dr. E. L. Koos will be on the campus June 12-24 as consultants and to assist in teaching Family Relations 433 and Home Economics Education 536.

Three hours graduate credit in Home Economics will be given for both courses, and three semester hours graduate credit in sociology will be given for family relations. This course is open to advanced and graduate students in all divisions.

The Library

The Library of Texas Technological College, consisting of 75,164 cataloged volumes, 832 current periodical subscriptions, and 231,043 government publications, is housed in a separate building near the center of the campus. Among the facilities for student services are the reserve reading room, a typing room, a general reading room, and an area devoted to the use of periodicals and documents. Individual study space is available for graduate students engaged in research. The library also provides readers for microfilm and microcard publications.

The library staff is made up of 10 professionally trained librarians and 14 sub-professionals, providing service all hours the library is open.

SPECIAL COLLECTIONS

A small, but growing collection of carefully selected material is available on open shelves for recreational reading.

In March 1948, the English Department established a fund for a library in memory of Lucile Gill, for many years a member of the English faculty. The scope of the plan was enlarged to admit contributions from students, former students, faculty members, and friends. Miss Gill's family donated her personal library consisting of 400 discriminatingly chosen books. The collection is a part of the library and administered by the library staff. The room chosen for it is on the second floor of the library.

The Southwest Collection, which is housed in a separate reading room on the first floor, was established for the acquisition and preservation of materials of particular interest in this region. It includes documents and manuscripts, catalogued volumes, many not obtainable in other Texas libraries, and a large

collection of early Texas newspapers on microfilm, a gift of Lewis W. McNaughton of Dallas, Texas. The archive material includes a group of papers connected with the estate of James Bowie, given to the library by the late Sen. Arthur P. Duggan of Littlefield, Texas; a collection of records of the Matador Land and Cattle Company, a gift of Maurice Reilly; and a collection of records of the Spur Ranch, given by President Emeritus Clifford B. Jones. With the aid of several residents of Spur, a file of the *Texas Spur* from 1909-40 has been secured for the collection.

The library offers its services to the students and faculty of the college, to the citizens of the State of Texas, and to other friends of the college.

Hours of service: 8 A.M. to 10 P.M., Monday through Friday; 8 A.M. to 5 P.M. Saturday. Closed Sundays and holidays. Summer term: 7:30 A.M. to 9:30 P.M., Monday through Friday; 7:30 A.M. to 4:30 P.M. Saturday. Closed Sundays and holidays.

The Placement Service

The college offers the facilities of its placement service, both to its students and to those desiring to employ these students. Graduates and former students are urged to take advantage of this service, and candidates for a degree will be expected to complete personnel sheets for filing with that office prior to the receipt of their degrees.

Employers, representing both school administrators and industry, should file requests with that office for needed personnel. All correspondence relative to employment of students should be addressed to that office.

Further details and coverage offered may be received from the Executive Secretary, Room 205 of the Administration Building.

The College Bookstore

The College Bookstore, situated on the campus, is a self-supporting enterprise owned and operated by the college. It is maintained to enable students to purchase textbooks, books for extension courses, supplies, and other equipment needed for laboratory and class work. The Bookstore handles secondhand books, purchasing them at the end of the year from students who desire to dispose of such books.

Summer Session in Local Schools

The summer session of the Lubbock public schools will begin May 31 and continue through July 25.

In grades one through eight, work in the fundamental subjects will be offered for review only. Credit work—not more than two half units per student—will be offered at grades nine through 12. Courses in social studies, English, and mathematics, and some electives, may be taken.

Tuition will vary according to grade level and will be announced later. Any further information may be obtained by writing Office of the Supervisors, Senior High School Building, Lubbock, Texas.

Summer School Commencement

A student who completes all work for any degree at the end of either term will have the degree conferred during the commencement program to be held the last day of the summer session. Summer commencement is scheduled to be held on Wednesday, Aug. 23, at 8 P.M.

Admission to Candidacy for Graduation

Any student who enters the semester or summer session at the end of which all work for the degree will be completed with less than the entire number of grade points required for the degree for which he is a candidate shall be admitted to *qualified candidacy only*. Since under these conditions failure to graduate may result, ordering the diploma and making other plans for graduation may be done by the student entirely on his own responsibility.

A formal notice will be sent to each student who is admitted to qualified candidacy only, and to his parents, by the dean of his division.

Grade of WP or WF

Effective with the summer session of 1950 the former grade of W is abolished and a student who withdraws from a course will receive a grade of WP if his work is passing in quality; otherwise, the grade is WF.

Other Academic Regulations

For regulations covering probation, withdrawing from college, dropping courses, grades, et cetera, see the Twenty-Fourth Annual Catalog.

Further Information

For more detailed information regarding the summer session, as well as for other information pertaining to the college and its program of work, those interested are invited to write to the Registrar, Texas Technological College, Lubbock, Texas.

OUTLINE OF COURSES

Explanation of Course Numbers. The numbers used for designating courses are uniform. From left to right, the first digit indicates the college year in which the course is normally taken; the second digit shows the semester hour value of the course; the last digit (or digits) is the departmental course number. To illustrate: English 131 is a freshman course with a credit value of three semester hours. See the regular current catalog for further explanation.

If the enrollment for a course or section of a course is not large enough, or some unforeseen event makes it not feasible to offer any of the courses listed in this bulletin, the college reserves the right to cancel that course.

The student should consult the Twenty-Fourth Catalog for course descriptions and prerequisites.

ACCOUNTING AND FINANCE

First Term

ACCOUNTING

- | | | |
|------|---|-------------|
| 231. | Industrial Accounting for Engineers. 3 sem. hrs., | Mr. Taylor |
| 244. | Elementary Accounting. 4 sem. hrs., 9 lec. hrs.,
9 lab. hrs. | Mrs. Eaves |
| 245. | Elementary Accounting. 4 sem. hrs., 9 lec. hrs.,
9 lab. hrs. | Mr. Gibson |
| 334. | Intermediate Accounting. 3 sem. hrs. | Mr. Smith |
| 336. | Principles of Cost Accounting. 3 sem. hrs. | Mr. Gibson |
| 430. | Income Tax Accounting. 3 sem. hrs. | Mr. Taylor |
| 434. | Advanced Accounting. 3 sem. hrs. | Mr. Rushing |
| 437. | Principles of Auditing. 3 sem. hrs. | Mr. Smith |
| 441. | Machine Accounting. 4 sem. hrs., 9 lec. hrs.,
9 lab. hrs. | Mrs. Eaves |
| 531. | C.P.A. Problems. 3 sem. hrs. | Mr. Rushing |
| 601. | Thesis | Staff |

FINANCE

- | | | |
|------|----------------------------------|------------|
| 331. | Corporation Finance. 3 sem. hrs. | Mr. Hooper |
| 336. | Life Insurance. 3 sem. hrs. | Mr. Hooper |
| 338. | Business Law. 3 sem. hrs. | Mr. Carr |
| 339. | Business Law. 3 sem. hrs. | Mr. Bass |
| 601. | Thesis | Staff |

Second Term

ACCOUNTING

244. Elementary Accounting. 4 sem. hrs., 9 lec. hrs.,
9 lab. hrs. Mr. Taylor
245. Elementary Accounting. 4 sem. hrs., 9 lec. hrs.,
9 lab. hrs. Mr. Whittington
335. Intermediate Accounting. 3 sem. hrs. Mr. Smith
430. Income Tax Accounting. 3 sem. hrs. Mr. Taylor
432. Governmental Accounting. 3 sem. hrs. Mr. Whittington
435. Advanced Accounting. 3 sem. hrs. Mr. Rushing
438. Advanced Auditing. 3 sem. hrs. Mr. Smith
532. C.P.A. Problems, Second Course. 3 sem. hrs. Mr. Rushing
601. Thesis Staff

FINANCE

331. Corporation Finance. 3 sem. hrs. Mr. Hooper
334. Credits and Collections. 3 sem. hrs. Mr. Hooper
339. Business Law. 3 sem. hrs. Mr. Bass
601. Thesis Staff

AGRICULTURAL ECONOMICS

First Term

AGRICULTURAL ECONOMICS

235. Fundamentals of Economics. 3 sem. hrs. Mr. Bennett
331. Statistical Problems. 3 sem. hrs., 6 lec. hrs.,
9 lab. hrs. Mr. Ashworth
323. Advanced Agricultural Economics. 2 sem. hrs. Mr. Bennett
435. International Agricultural Economics.
3 sem. hrs. Mr. McBride
511. Agricultural Problems. 1 sem. hr. Staff
534. Research in Agricultural Economics. 3 sem. hrs. Staff
601. Thesis Staff

RURAL SOCIOLOGY

432. Rural Sociology. 3 sem. hrs. Mr. McBride
532. Current Problems in Rural Sociology. 3 sem. hrs. Staff

Second Term

AGRICULTURAL ECONOMICS

236. Principles of Agricultural Marketing.
3 sem. hrs. Mr. Marshall
425. Farm Laws. 2 sem. hrs. Mr. Leonard

431.	Livestock Marketing. 3 sem. hrs.	Mr. Marshall
433.	Farm Management and Records. 3 sem. hrs., 6 lec. hrs., 9 lab. hrs.	Mr. Leonard
531.	Problems in Land Use. 3 sem. hrs.	Staff
601.	Thesis	Staff

AGRICULTURAL EDUCATION

First Term

AGRICULTURAL EDUCATION

511.	Problems. 1 sem. hr.	Mr. Hargrave
522.	Advanced Methods, I. 2 sem. hrs.	Mr. Chappelle
523.	Advanced Methods, II. 2 sem. hrs.	Mr. Leach
524.	Advanced Methods, III. 2 sem. hrs.	Mr. Hargrave
531.	Investigations in the Field of Agricultural Education. 3 sem. hrs.	Mr. Leach
601.	Thesis	Mr. Chappelle

Second Term

AGRICULTURAL EDUCATION

511.	Problems. 1 sem. hr.	Mr. Hargrave
531.	Investigations in the Field of Agricultural Education. 3 sem. hrs.	Mr. Leach
601.	Thesis	Mr. Chappelle

ANIMAL HUSBANDRY

First Term

ANIMAL HUSBANDRY

422.	Animal Breeding. 2 sem. hrs.	Mr. Neeley
424.	Beef Cattle Production. 2 sem. hrs.	Mr. Stangel
428.	Dairy Cattle Production. 2 sem. hrs.	Mr. Neeley
531.	Advanced Animal Husbandry. 3 sem. hrs.	Staff
601.	Thesis	Staff

POULTRY HUSBANDRY

231.	Farm Poultry. 3 sem. hrs., 6 lec. hrs., 9 lab. hrs.	Mr. Mathews
423.	Market Eggs. 2 sem. hrs.	Mr. Mathews

Second Term

ANIMAL HUSBANDRY

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|------|--|-----------------|
| 131. | General Animal Husbandry. 3 sem. hrs.,
6 lec. hrs., 9 lab hrs. | Mr. Harbaugh |
| 231. | Breeds of Livestock. 3 sem. hrs. | Mr. Mowery |
| 322. | Farm Meats. 2 sem. hrs., 3 lec. hrs.,
9 lab. hrs. | Mr. Anderson |
| 331. | Animal Nutrition and Principles of Feeding.
3 sem. hrs., 6 lec. hrs., 9 lab. hrs. | Mr. Baumgardner |
| 427. | Swine Production. 2 sem. hrs. | Mr. Baumgardner |
| 532. | Advanced Animal Husbandry. 3 sem. hrs. | Staff |
| 601. | Thesis | Staff |

VETERINARY SCIENCE

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|-----|---|--------------|
| 333 | General Veterinary Science. 3 sem. hrs. | Mr. Harbaugh |
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APPLIED ARTS

First Term

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|------|--|--------------|
| 131. | Principles of Design. 3 sem. hrs., 6 lec. hrs.,
9 lab. hrs. | Miss Rawls |
| 231. | Costume Design. 3 sem. hrs., 6 lec. hrs.,
18 lab. hrs. | Miss Beitler |
| 233. | Textile Design. 3 sem. hrs., 6 lec. hrs.,
18 lab. hrs. | Miss Rawls |

Second Term

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|------|---|-----------------|
| 232. | Crafts Design. 3 sem. hrs., 3 lec. hrs.,
18 lab. hrs. | Mrs. Lockard |
| 331. | Interior Design. 3 sem. hrs., 6 lec. hrs.,
9 lab. hrs. | Miss Poindexter |

DEPARTMENT OF ARCHITECTURE

First Term

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|--------|---|------------|
| 121 or | Freehand Drawing. 2 sem. hrs., 18 lab. hrs. | |
| 122. | each | Mr. Hale |
| 125. | Shades and Shadows. 2 sem. hrs., 18 lab. hrs. | Mr. Vetter |
| 131. | Elements of Architecture. 3 sem. hrs., 3 lec. hrs.,
18 lab. hrs. | Mr. Vetter |

239 & Pottery. 3 or 6 sem. hrs., 27 lab. hrs.	
2310. each	Mr. Tracy
326. Anatomy. 2 sem. hrs., 18 lab. hrs.	Mr. Hale
3216 & Clay Modelling. 2 or 4 sem. hrs., 18 lab.	
3217. hrs. each	Mr. Tracy
331. Commercial Design. 3 sem. hrs. 27 lab. hrs.	Mr. Vetter
351. Architectural Design II. 5 sem hrs., 45 lab. hrs.	Mrs. Des Marais
423. Life Drawing II. 2 sem. hrs., 18 lab. hrs.	Mr. Hale
426-7. Oil Painting. 2 sem. hrs., 18 lab. hrs. each	Mr. Hale

PUBLIC SCHOOL ART

328-9. Poster Design & Lettering. 2 sem. hrs., 18 lab. hrs. each	Mr. Sasser
337-8. Public School Arch. 3 sem. hrs., 27 lab hrs. each	Mr. Sasser
439 or Methods of Teaching Art Integrated for the Elementary	
4310. and High School. 3 sem. hrs., 3 lec. hrs., 18 lab. hrs. each	Mr. Sasser

Second Term

121-2. Freehand Drawing. 2 sem. hrs., 18 lab. hrs., each	Mr. Parkinson
126. Shades and Shadows. 2 sem. hrs., 18 lab. hrs.	Mr. Vetter
132. Elements of Architecture. 3 sem. hrs., 3 lec. hrs., 18 lab. hrs.	Mr. Vetter
327. Life Drawing I. 2 sem. hrs., 18 lab. hrs.	Mr. Parkinson
332. Commercial Design. 3 sem. hrs., 27 lab hrs.	Mr. Vetter
352. Architectural Design II. 5 sem. hrs., 45 lab. hrs.	Mr. Kleinschmidt
424. Life Drawing III. 2 sem. hrs., 18 lab. hrs.	Mr. Parkinson
426-7. Oil Painting. 2 sem. hrs., 18 lab. hrs., each	Mr. Parkinson

PUBLIC SCHOOL ART

328-9. Poster Design & Lettering. 2 sem. hrs., 18 lab. hrs., each for Public School Teachers.	Mr. Sasser
337-8. Public School Arch. 3 sem. hrs., 27 lab. hrs., each	Mr. Sasser
439 or Methods of Teaching Art Integrated for the	
4310. Elementary and High School. 3 sem. hrs., 18 lab. hrs., each	Mr. Sasser

BIOLOGY

First Term

BACTERIOLOGY

231. Bacteriology. 3 sem. hrs., 6 lec. hrs.,
9 lab. hrs. Mr. Gunn

BIOLOGY

133. Botany. 3 sem. hrs., 6 lec. hrs., 9 lab. hrs. Mr. Studhalter
331. Heredity. 3 sem. hrs., 9 lec. hrs., Mr. Cross

BOTANY

232. Taxonomy. 3 sem. hrs., To be arranged. Mr. Studhalter
531. Problems in Botany. 3 sem. hrs.,
To be arranged. Mr. Studhalter
601. Thesis, To be arranged. Mr. Studhalter

ZOOLOGY

235. Anatomy, Physiology, and Hygiene. 3 sem. hrs.,
6 lec. hrs., 9 lab. hrs. Mr. Cross
531. Problems in Zoology. 3 sem. hrs., To be arranged. Mr. Cross
601. Thesis, To be arranged. Mr. Cross

Second Term

BIOLOGY

134. Zoology. 3 sem. hrs., 6 lec. hrs., 9 lab. hrs. Mr. Landwer

ZOOLOGY

236. Anatomy, Physiology, and Hygiene. 3 sem. hrs.,
6 lec. hrs., 9 lab. hrs. Mr. Strandtmann
332. Comparative Vertebrate Embryology. 3 sem. hrs.
To be arranged. Mr. Landwer
438. Field Entomology. 3 sem. hrs.
To be arranged. Mr. Strandtmann
535. Field Zoology. 3 sem. hrs.
To be arranged. Mr. Strandtmann
601. Thesis. To be arranged. Mr. Strandtmann

CHEMISTRY AND CHEMICAL ENGINEERING

First Term

CHEMISTRY

132. General Chemistry. 3 sem. hrs., 7½ lec. hrs.,
7½ lab. hrs. Mr. Jones, Mr. Watson, and Staff
220. Qualitative Analysis. 2 sem. hrs., 3 lec. hrs.,
9 lab. hrs. Miss Stuart, Miss Bryant
246. Analytical Chemistry. 4 sem. hrs., 6 lec. hrs.,
18 lab. hrs. Mr. Dodge
331. Quantitative Analysis. 3 sem. hrs., 22½ lab. hrs. Mr. Craig
341. Organic Chemistry. 4 sem. hrs., 9 lec. hrs.,
9 lab. hrs. Mr. Tinsley
343. Organic Chemistry. 4 sem. hrs., 9 lec. hrs.,
9 lab. hrs. Mr. Dennis
411. Seminar. 1 sem. hr. Mr. Craig
412. Seminar. 1 sem. hr. Mr. Craig
434. Organic Preparations. 3 sem. hrs.,
22½ lab. hrs. Mr. Dennis
537. Advanced Work in Specific Fields. 3 sem. hrs. Staff
601. Thesis Staff

CHEMICAL ENGINEERING

425. Unit Operations Laboratory. 2 sem. hrs.,
18 lab. hrs. Mr. Dodge
538. Advanced Work in Specific Fields. 3 sem. hrs. Staff
601. Thesis Staff

Second Term

CHEMISTRY

132. General Chemistry. 3 sem. hrs., 7½ lec. hrs.,
7½ lab. hrs. Mr. Slagle, Mr. Watson, Miss Brock, and Staff
332. Quantitative Analysis. 3 sem. hrs.,
22½ lab. hrs. Mr. Oberg
344. Organic Chemistry. 4 sem. hrs., 9 lec. hrs.,
9 lab. hrs. Mr. Goodwin, Mr. Watson
346. Physical Chemistry. 4 sem. hrs., 9 lec. hrs.,
9 lab. hrs. Mr. Detman
411. Seminar. 1 sem. hr. Mr. Watson
412. Seminar. 1 sem. hr. Mr. Watson
435. Advanced Quantitative Analysis. 3 sem. hrs.,
22½ lab. hrs. Mr. Oberg

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|------|---|-------|
| 538. | Advanced Work in Specific Fields. 3 sem. hrs. | Staff |
| 601. | Thesis | Staff |

CHEMICAL ENGINEERING

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|------|--|------------|
| 426. | Unit Operations Laboratory. 2 sem. hrs.,
18 lab. hrs. | Mr. Detman |
| 538. | Advanced Work in Specific Fields. 3 sem. hrs. | Staff |
| 601. | Thesis | Staff |

CHILD DEVELOPMENT AND FAMILY RELATIONS

First Term

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|------|---|-------------|
| 431. | Development of Learning in Young Children.
3 sem. hrs., 6 lec. hrs., 9 lab. hrs. | Mrs. Camp |
| 433. | Family Relations. 3 sem. hrs. | Miss Callan |

CIVIL ENGINEERING

First Term

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|------|---|--------------|
| 231. | Plane Surveying. 3 sem. hrs., 6 lec. hrs.,
9 lab. hrs. | Mr. Overby |
| 310. | Testing Laboratory. 1 sem. hr., 9 lab. hrs. | Mr. Harding |
| 312. | Fluid Mechanics Laboratory. 1 sem. hr.,
9 lab. hrs. | Mr. Parrish |
| 320. | Structures. 2 sem. hrs., 3 lec. hrs., 9 lab. hrs. | Mr. Harding |
| 331. | Applied Mechanics-Statics. 3 sem. hrs. | Mr. Parrish |
| 332. | Applied Mechanics-Kinematics and Kinetics.
3 sem. hrs. (2 sections) | Mr. Murdough |
| 333. | Applied Mechanics-Strength of Materials.
3 sem. hrs. (2 sections) | Mr. Harding |
| 335. | Highway Engineering. 3 sem. hrs. | Mr. Overby |
| 420. | Hydraulics. 2 sem. hrs. | Mr. McRee |
| 439. | Law and Ethics in Engineering. 3 sem. hrs. | Mr. Parrish |
| | | Mr. McRee |

Second Term

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|-------|---|---------------|
| 231. | Plane Surveying. 3 sem. hrs., 6 lec. hrs.,
9 lab. hrs. | Mr. Overby |
| 312. | Fluid Mechanics Laboratory. 1 sem. hr.,
9 lab. hrs. | Mr. Whetstone |
| *330. | Structures. 3 sem. hrs. | Mr. Harding |

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|-------|--|-----------------------------|
| 331. | Applied Mechanics-Statics. 3 sem. hrs. | Mr. Parrish |
| 332. | Applied Mechanics-Kinematics and Kinetics.
3 sem. hrs. (2 sections) | Mr. Harding
Mr. Parrish |
| 333. | Applied Mechanics-Strength of Materials.
3 sem. hrs. (2 sections) | Mr. Harding
Mr. Overby |
| *334. | Surveying. 3 sem. hrs., 6 lec. hrs., 9 lab. hrs. | Mr. McRee or
Mr. Harding |
| *336. | Highway Engineering. 3 sem. hrs. | Mr. McRee |
| *339. | Fluid Mechanics. 3 sem. hrs. | Mr. Whetstone |
| 439. | Law and Ethics in Engineering. 3 sem hrs.
(2 sections*) | Mr. McRee |

* Not all of the sections marked will be run, but choices from them will be made dependent on demand. Students interested in any of these courses should consult Head of Department of Civil Engineering.

CLOTHING AND TEXTILES

First Term

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|------|---|--------------|
| 331. | Tailoring. 3 sem. hrs., 3 lec. hrs., 18 lab. hrs. | Mrs. Kinchen |
| 334. | Family Clothing. 3 sem. hrs., 6 lec. hrs.,
9 lab. hrs. | Mrs. Kinchen |

Second Term

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|------|--|-------------|
| 131. | Basic Textiles. 3 sem. hrs., 6 lec. hrs.,
9 lab. hrs. | Mrs. Buster |
| 336. | Textile Appreciation. 3 sem. hrs. | Mrs. Buster |
| 435. | Home Furnishings. 3 sem. hrs. (July 15- August 4)
6 lec. hrs., 36 lab. hrs. | Miss Erwin |
| 533. | Special Problems in Teaching Clothing. 3 sem hrs.,
(August 5-August 23) 3 sem. hrs. | Miss Erwin |

DAIRY MANUFACTURES

First Term

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|------|--|----------------|
| 131. | Principles of Dairying. 3 sem. hrs., 6 lec. hrs.,
9 lab. hrs. | Mr. Tinney |
| 222. | Dairy Industries. 2 sem. hrs. | Mr. Tinney |
| 323. | Judging Dairy Products. 2 sem. hrs., 3 lec. hrs.,
9 lab. hrs. | Mr. Willingham |

512. Advanced Dairy Products Quality Control.
1 sem. hr. Mr. Willingham
531. Dairy Manufactures Research. 3 sem. hrs. Mr. Willingham

Second Term

334. Fundamentals of Dairy Science. 3 sem. hrs.,
6 lec. hrs., 9 lab. hrs. Mr. Harmon
335. Dairy Bacteriology. 3 sem. hrs., 6 lec. hrs.,
9 lab. hrs. Mr. Harmon
532. Dairy Manufactures Research. 3 sem. hrs. Mr. Willingham
601. Thesis Mr. Willingham

ECONOMICS AND MANAGEMENT

First Term

ECONOMICS

231. Principles of Economics. 3 sem. hrs. Mr. Moore
235. Principles of Economics. 3 sem. hrs. Mr. Wiesen
333. Public Expenditures. 3 sem. hrs. Mr. Clover
335. Transportation Economics. 3 sem. hrs. Mr. Moore
337. Economic Systems. 3 sem. hrs. Mr. Anderson
531. Economic Research. 3 sem. hrs. Mr. Wiesen
3312. Economics of Labor. 3 sem. hrs. Mr. Clover

MANAGEMENT

332. Management of Small Business Enterprise.
3 sem. hrs. Mr. Hubbard
334. Personnel Administration. 3 sem. hrs. Mr. Mize
431. Office Management. 3 sem. hrs. Mr. Hubbard
435. Employee Supervision. 3 sem. hrs. Mr. Mize

Second Term

ECONOMICS

231. Principles of Economics. 3 sem. hrs. Mr. Moore
232. Principles of Economics. 3 sem. hrs. Mr. Clover
332. Public Utility Economics. 3 sem. hrs. Mr. Moore
334. Taxation. 3 sem. hrs. Mr. Clover

EDUCATION, PSYCHOLOGY AND PHILOSOPHY

First Term

EDUCATION

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|----------|---|----------------|
| 131. | Introduction to Education. 3 sem. hrs. | Mrs. Sheehan |
| 234. | Principles of Secondary Education. 3 sem. hrs. | Mr. Shaver |
| 237. | The Language Arts. 3 sem. hrs. | Mr. McDonald |
| 331-321. | Principles of Education. 3 or 2 sem. hrs. | Mr. Thompson |
| 333. | Education of Exceptional Children. 3 sem. hrs. | |
| | | Mrs. Ballenger |
| 336. | Educational and Vocational Guidance. 3 sem. hrs. | |
| | | Mr. Hutchins |
| 339. | Unit Teaching. 3 sem. hrs. | Mrs. Ballenger |
| 3316. | Observation and Practice. 3 sem. hrs. | Mr. Shaver |
| 3317. | Observation and Practice. 3 sem. hrs. | Mr. McDonald |
| 430. | Sociological Principles of Education. 3 sem. hrs. | |
| | | Mr. Caskey |
| 432. | Public School Administration. 3 sem. hrs. | Staff |
| 433. | Public School Relations. 3 sem. hrs. | Staff |
| 434. | Supervision of Instruction. 3 sem. hrs. | Mr. Caskey |
| 531. | Educational Research. 3 sem. hrs. | Mr. Jackson |
| 537. | Student Counseling. 3 sem. hrs. | Mr. Barnett |
| 539. | Seminar. 3 sem. hrs. | Mr. Jackson |
| 5311-1. | Research Problems. 3 sem. hrs. | Mr. Cooper |
| 5311-2. | Research Problems. 3 sem. hrs. | Mr. Cooper |
| 601. | Thesis | Staff |

PSYCHOLOGY

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|------|--|--------------|
| 230. | Introduction to Psychology. 3 sem. hrs. | Mrs. Sheehan |
| 331. | Child Psychology. 3 sem. hrs. | Miss True |
| 333. | Measurements in Education. 3 sem. hrs. | Mr. Barnett |
| 335. | Psychology of Adolescence. 3 sem. hrs. | Mr. Thompson |
| 433. | Mental Hygiene. 3 sem. hrs. | Miss True |
| 435. | Psychology of the Abnormal. 3 sem. hrs. | Mr. Hutchins |
| 530. | Practicum in Intelligence Testing. 3 sem. hrs. | Staff |

Second Term

EDUCATION

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|------|--|--------------|
| 138. | Career Guidance in Education. 3 sem. hrs. | Mrs. Sheehan |
| 235. | High School Methods. 3 sem. hrs. | Mr. Shaver |
| 236. | Basic Skills in the Elementary Grades. 3 sem. hrs. | |
| | | Mrs. Odell |

- 332-322. Problems in Secondary Education. 3 or 2 sem. hrs. Mr. Thompson
3310. Children's Literature. 3 sem. hrs. Mr. McDonald
3311. Remedial Reading in the Elementary School. 3 sem. hrs. Mrs. Odell
3314. Duties of School Principals. 3 sem. hrs. Mr. Shaver
3315. Visual-Audio Aids in Education. 3 sem. hrs. Mr. Cooper
431. Education in the United States. 3 sem. hrs. Mr. Irvin
4311. Problems of the Elementary Curriculum. 3 sem. hrs. Mr. McDonald
531. Educational Research. 3 sem. hrs. Mr. Irvin
532. Philosophy of Education. 3 sem. hrs. Mr. Jackson
534. Modern Trends in Education. 3 sem. hrs. Mr. Garlin
5310. Practicum in Vocational Counseling. 3 sem. hrs. Staff
5311. Research Problems. 3 sem. hrs. Mr. Cooper
5312. Workshop on Educational Leadership and Supervision. 3 sem. hrs. Mr. Garlin
5312. Workshop on Educational Leadership
601. Thesis Staff

PSYCHOLOGY

231. Educational Psychology. 3 sem. hrs. Mrs. Sheehan
333. Measurements in Education. 3 sem. hrs. Mr. Barnett
431. Mental Testing. 3 sem. hrs. Mr. Barnett
434. Social Psychology. 3 sem. hrs. Mr. Hutchins
436. Personality and Character Development. 3 sem. hrs. Mr. Hutchins

PHILOSOPHY

238. Ethics. 3 sem. hrs. Mr. Little
337. Logic. 3 sem. hrs. Mr. Little

ELECTRICAL ENGINEERING

First Term

231. Principles of Electrical Engineering. 3 sem. hrs. Mr. Bullen
221. Electrical Engineering Laboratory 2 sem. hrs., 18 lab. hrs. Mr. Bullen, Mr. Wade
332. Alternating Current Circuits. 3 sem. hrs. Mr. Houston

322. Alternating Current Circuits Laboratory. 2 sem hrs.,
18 lab. hrs. Mr. Houston, Mr. Wade
325. *Electronics. 2 sem. hrs., 6 lec. hrs. Mr. Stenis, Mr. Harman
323. *Electronics Laboratory. 2 sem. hrs.,
18 lab. hrs. Mr. Stenis, Mr. Harman
4312. Electrical Machinery. 3 sem. hrs. Mr. Smith
4212. Electrical Machinery Laboratory. 2 sem. hrs.,
18 lab. hrs. Mr. Smith, Mr. Lilly
4112. Electrical Machinery Laboratory. 2 sem. hrs.,
9 lab. hrs. Mr. Lilly
4310. Vacuum Tube Circuits. 3 sem. hrs. Mr. Bennett
4210. Vacuum Tube Circuits Laboratory. 2 sem. hrs.,
18 lab. hrs. Mr. Bennett, Mr. Stenis
426. Elements of Electrical Engineering. 2 sem. hrs. Mr. Lilly
438. Elements of Electrical Engineering. 3 sem. hrs. Mr. Minter
412. Electrical Engineering Laboratory. 1 sem. hr.,
9 lab. hrs. Mr. Minter, Mr. Harman, Mr. Lilly
- * One-half of course completed each term.

Second Term

232. Principles of Electrical Engineering.
3 sem. hrs. Mr. Bullen
222. Electrical Engineering Laboratory. 2 sem. hrs.,
18 lab. hrs. Mr. Bullen, Mr. Wade
334. Communications Circuits. 3 sem. hrs. Mr. Houston
324. Communication Circuits Laboratory. 2 sem. hrs.,
18 lab. hrs. Mr. Houston, Mr. Wade
325. *Electronics. 2 sem. hrs., 6 lec. hrs. Mr. Stenis, Mr. Harman
323. *Electronics Laboratory. 2 sem. hrs.,
18 lab. hrs. Mr. Stenis, Mr. Harman
431. Electrical Machinery. 3 sem. hrs. Mr. Smith
4213. Electrical Machinery Laboratory. 2 sem. hrs.,
9 lab. hrs. Mr. Lilly
429. Engineering Electronics. 2 sem. hrs. Mr. Bennett
4216. Engineering Electronics Laboratory. 2 sem. hrs.,
18 lab. hrs. Mr. Bennett
427. Elements of Electrical Engineering. 2 sem. hrs. Mr. Lilly
439. Elements of Electrical Engineering. 3 sem. hrs. Mr. Minter
413. Electrical Engineering Laboratory. 1 sem. hr.,
9 lab. hrs. Mr. Minter, Mr. Harman, Mr. Lilly
- * One-half course completed each term.

ENGLISH

First Term

131.	English Composition. 3 sem. hrs.	Staff
132.	English Composition. 3 sem. hrs.	Staff
233.	Technical Writing. 3 sem. hrs.	Miss Green
235.	Survey of English Literature. 3 sem. hrs.	Mr. Camp
237.	Types and Masterpieces of Literature. 3 sem. hrs.	Staff
238.	Types and Masterpieces of Literature. 3 sem. hrs.	Staff
338.	American Poetry. 3 sem. hrs.	Mr. Smallwood
3311.	The Nature of Literature. 3 sem. hrs.	Miss Teague
431.	Restoration and Eighteenth Century Drama. 3 sem. hrs.	Mr. Camp
436.	The Later Romantic Poets. 3 sem. hrs.	Mr. McCullen
4317.	Modern European Drama. 3 sem. hrs.	Mr. Murphy
4320.	American Literature and Its Backgrounds. 3 sem. hrs.	Mr. Gates
510.	Methods of Literary Research. 1 sem. hr.	Staff
538.	Studies in English Romantic Poets. 3 sem. hrs.	Mr. McCullen
5319.	Studies in Shakespeare. 3 sem. hrs.	Mr. Gates
601.	Thesis	Staff

Second Term

131.	English Composition. 3 sem. hrs.	Miss Wells
132.	English Composition. 3 sem. hrs.	Staff
233.	Technical Writing. 3 sem. hrs.	Mr. Nall
237.	Types and Masterpieces of Literature. 3 sem. hrs.	Mr. White, Mrs. Wellborn
238.	Types and Masterpieces of Literature. 3 sem. hrs.	Mr. Mills, Mr. Nall
332.	History of the English Language. 3 sem. hrs.	Mr. Gunn
3315.	The Short Story. 3 sem. hrs.	Mr. Mills
432.	Shakespeare. 3 sem. hrs.	Mr. Gunn
4321.	American Literature and Its Backgrounds. 3 sem. hrs.	Mr. White
4322.	Life and Literature of the Southwest. 3 sem. hrs.	Mr. Gillis
5319.	Studies in Shakespeare. 3 sem. hrs.	Mr. Gunn
601.	Thesis	Staff

FOODS, NUTRITION AND
INSTITUTIONAL MANAGEMENT

First Term

NUTRITION

334. Dietetics. 3 sem. hrs., 6 lec. hrs., 9 lab. hrs. Mrs. Michie
433. Nutrition of Children. 3 sem. hrs. Mrs. Michie

INSTITUTIONAL MANAGEMENT

432. Large Quantity Cookery. 3 sem. hrs., 6 lec. hrs.,
9 lab. hrs. Miss Schulz

Second Term

NUTRITION

333. Elementary Nutrition and Food Selection.
3 sem. hrs. Miss Weeks

FOODS

335. Food Preservation. 3 sem. hrs. (August 5-August 23)
6 lec. hrs., 36 lab. hrs. Miss Buttrill

FOREIGN LANGUAGES

First Term

FRENCH

131. A Beginning Course in French. 3 sem. hrs. Mrs. Alexander
231. A Reading Course in French. 3 sem. hrs. Mrs. Alexander

GERMAN

131. A Beginning Course in German. 3 sem. hrs. Mr. Alexander
 231. A Reading Course in Literary German.
 3 sem. hrs. Mr. Alexander
 233. Scientific German. 3 sem. hrs. Mr. Alexander

SPANISH

131. A Beginning Course in Spanish. 3 sem. hrs. Mr. Reynolds
 132. A Beginning Course in Spanish. 3 sem. hrs. Mr. Sadler
 231. Grammar, Reading, Composition, and Conservation.
 3 sem. hrs. Mr. Reynolds
 331. Contemporary Literature. 3 sem. hrs. Mr. Strehli
 4316. A Survey of Spanish Literature. 3 sem. hrs. Mr. Strehli
 4324. Readings in Latin American Literature
 3 sem. hrs. Mrs. Gates
 5312. Studies in Spanish and Spanish-American Literature.
 3 sem. hrs. Mrs. Gates
 601. Thesis Staff

Second Term

FRENCH

132. A Beginning Course in French. 3 sem. hrs. Mr. Hamlett
 232. A Reading Course in French. 3 sem. hrs. Mr. Hamlett

GERMAN

132. A Beginning Course in German. 3 sem. hrs. Mr. Henninger
 232. A Reading Course in Literary German.
 3 sem. hrs. Mr. Henninger
 234. Scientific German. 3 sem. hrs. Mr. Henninger

SPANISH

132. A Beginning Course in Spanish. 3 sem. hrs. Mrs. Tucker
 232. Grammar, Reading, Composition, and Conservation.
 3 sem. hrs. Mrs. Tucker
 332. Contemporary Literature. 3 sem. hrs. Mr. Qualia
 436. Advanced Grammar, Composition, and Style.
 3 sem. hrs. Mr. Qualia

4310-Spanish Language and Civilization in Mexico:

11. 6 sem. hrs. Given in Mexico City. Service

Fee: \$15.00.

Mr. Hamilton

601. Thesis.

Staff

GEOLOGY

*First Term*131-2. General Geology. 6 sem. hrs., 18 lec. hrs.,
12 lab. hrs.

Mr. Sidwell

333-4. Petrography and Petrology. 6 sem. hrs.,
6 lec. hrs., 36 lab. hrs.

Mr. Patton

363. Field Geology. Given in the
field.

Mr. Meade, Mr. Bond, Mr. Warn, Mr. Irvin

433-4. Structural Geology, Petroleum Geology.
6 sem. hrs.

Mr. Holt

531. Advanced Sedimentation. 3 sem. hrs.

Mr. Sidwell

*Second Term*335-6. General Paleontology. 6 sem. hrs.,
12 lec. hrs., 18 lab. hrs.

Mr. Bond

363. Field Geology. Given in the
field.

Mr. Meade, Mr. Warn, Mr. Irvin, Mr. Bronaugh

437-8. Sedimentation. 6 sem. hrs., 18 lec. hrs.,

Mr. Sidwell

532. Advanced Sedimentation. 3 sem. hrs.

Mr. Sidwell

GOVERNMENT

*First Term*230. American Government, Organization.
3 sem. hrs.

Mr. Davis

Mr. Adams

231. American Government, Functions, 3 sem. hrs.

Mr. Jackson

Mr. Dauley

331. Local Government. 3 sem. hrs.

Mr. Dauley

334. American Political Parties. 3 sem. hrs.

Mr. Jackson

433. European Political Ideas. 3 sem. hrs.

Mr. Davis

- | | | |
|------|---|-----------|
| 435. | International Organization. 3 sem. hrs. | Mr. Adams |
| 531. | Seminar. 3 sem. hrs. | Staff |
| 601. | Thesis. 3 sem. hrs. | Staff |

Second Term

- | | | |
|-------|---|-----------------------------|
| 230. | American Government, Organization.
3 sem. hrs. | Mr. Abernethy
Mr. Dauley |
| 231. | American Government, Functions. 3 sem. hrs. | Mr. Mack
Mr. Davis |
| 332. | Local Administration. 3 sem. hrs. | Mr. Dauley |
| 335. | American Foreign Relations. 3 sem. hrs. | Mr. Mack |
| 3311. | Political Institutions. 3 sem. hrs. | Mr. Abernethy |
| 434. | American Political Ideas. 3 sem. hrs. | Mr. Davis |
| 532. | Reading and Research. 3 sem. hrs. | Staff |
| 601. | Thesis. 3 sem. hrs. | Staff |

HISTORY, ANTHROPOLOGY, AND SOCIOLOGY

First Term

HISTORY

- | | | |
|-------|--|-------------|
| 131. | History of Civilization. 3 sem. hrs. | Mr. Vernon |
| 231. | Economic and Political History of
the U. S. 3 sem. hrs. | Mr. McKay |
| 335. | Geopolitics of World War II. 3 sem. hrs. | Mr. Eaves |
| 4315. | Constitutional Development in Texas
3 sem. hrs. | Mr. McKay |
| 4319. | Latin American Diplomacy. 3 sem. hrs. | Mr. Vernon |
| 535. | Technique of Research. 3 sem. hrs. | Mr. Wallace |
| 601. | Thesis | Staff |

ANTHROPOLOGY

- | | | |
|------|--------------------------------------|------------|
| 531. | Seminar in Anthropology. 3 sem. hrs. | Mr. Holden |
|------|--------------------------------------|------------|

SOCIOLOGY

- | | | |
|------|--------------------------------------|-------------|
| 233. | Current Social Problems. 3 sem. hrs. | Mr. Crounse |
| 332. | Marriage. 3 sem. hrs. | Mr. Crounse |
| 334. | Patterns of Cultural Traditions | Mr. Eaves |

Second Term

HISTORY

- | | | |
|-------|---|-------------|
| 132. | History of Civilization. 3 sem. hrs. | Mr. Gober |
| 232. | Economic and Political History of the U. S. 3 sem. hrs. | Mr. Pearce |
| 334. | French Revolution and Napoleon. 3 sem. hrs. | Mr. Pearce |
| 4316. | History of the U. S. 1919-1932. 3 sem. hrs. | Mr. McKay |
| 439. | History of Texas, 1846-1900. 3 sem. hrs. | Mr. Wallace |
| 532. | Seminar in American History. 3 sem. hrs. | Mr. McKay |
| 601. | Thesis | Staff |

ANTHROPOLOGY

- | | | |
|------|--------------------------------------|------------|
| 532. | Seminar in Anthropology. 3 sem. hrs. | Mr. Holden |
|------|--------------------------------------|------------|

SOCIOLOGY

- | | | |
|------|---|-------------|
| 230. | Introduction to Sociology. 3 sem. hrs. | Mr. Kinchen |
| 436. | Development of Sociological Thought 3 sem. hrs. | Mr. Kinchen |

HOME ECONOMICS EDUCATION

First Term

- | | | |
|------|--|--------------|
| 331. | Principles of Teaching Home Economics. 3 sem. hrs. | Miss Nesbitt |
| 435. | Methods of Adult Leadership. 3 sem. hrs. | Miss Graves |
| 536. | Problems. 3 sem. hrs. | Miss Nesbitt |

Second Term

- | | | |
|------|--|-----------------|
| 431. | Methods of Teaching Home Economics. 3 sem. hrs. | Mrs. Adams |
| 434. | Methods of Teaching Applied Arts in the Homemaking Curriculum. 3 sem. hrs. | Miss Poindexter |
| 536. | Problems. 3 sem. hrs. | Mrs. Adams |

HOME MANAGEMENT

First Term

332. General Home Management. 3 sem. hrs. Miss Drew
432. Residence in the Home Management House.
3 sem. hrs. (Permission to schedule course must
be secured in advance) Miss Drew

INDUSTRIAL ENGINEERING AND
ENGINEERING DRAWING*First Term*

ENGINEERING DRAWING

111. Engineering Drawing. 1 sem. hr., 9 lab. hrs. Mr. Kiger
121. Engineering Drawing. 2 sem. hrs., 18 lab. hrs. Mr. Kiger
131. Engineering Drawing. 3 sem. hrs., 3 lec. hrs.,
18 lab. hrs. Mr. Kiger
221. Machine Drawing. 2 sem. hrs., 18 lab. hrs. Mr. Penick
322. Advanced Machine Drawing. 2 sem. hrs.,
18 lab. hrs. Mr. Kiger

INDUSTRIAL DRAWING

332. Management-Production Planning and Control.
3 sem. hrs. Mr. Penick

Second Term

ENGINEERING DRAWING

111. Engineering Drawing. 1 sem. hr., 9 lab. hrs. Mr. Hughes
121. Engineering Drawing. 2 sem hrs.,
18 lab. hrs. Mr. MacKenzie
131. Engineering Drawing. 3 sem. hrs., 3 lec. hrs.,
18 lab. hrs. Mr. Hughes
221. Machine Drawing. 2 sem. hrs., 18 lab. hrs. Mr. Hughes

INDUSTRIAL ENGINEERING

332. Management-Production Planning and Control.
3 sem. hrs. Mr. MacKenzie

JOURNALISM

First Term

331. Special Feature Articles. 3 sem. hrs.	Mr. Horne
336. Advanced Reporting. 3 sem. hrs.	Mr. Horne
337. Advanced Reporting. 3 sem. hrs.	Mr. Horne
338. News Editing. 3 sem. hrs.	Mr. Horne
339. News Editing. 3 sem. hrs.	Mr. Horne
*3312. Basic Photography. 3 sem. hrs.	Mrs. Moore
*3313. Press Photography. 3 sem. hrs.	Mrs. Moore
432. High School Publications. 3 sem. hrs.	Mr. Horne
* Three or six hrs. credit may be taken first six weeks.	

Second Term

335. History of Journalism. 3 sem. hrs.	Mrs. Allen
434. Editorial Writing. 3 sem. hrs.	Mrs. Allen

MARKETING AND SECRETARIAL ADMINISTRATION

First Term

MARKETING

332. Principles of Marketing. 3 sem. hrs.	Mr. Blackwell
333. Marketing Problems. 3 sem. hrs.	Mr. Golden
346. Statistics. 4 sem. hrs.	Mr. Blackwell
432. Economics of Advertising. 3 sem. hrs.	Mr. Golden
433. Salesmanship. 3 sem. hrs.	Mr. Friedberg
436. Retail Store Management. 3 sem. hrs.	Mr. Friedberg

SECRETARIAL ADMINISTRATION

235. Intermediate Shorthand. 3 sem. hrs.	Mrs. Terrell
333. Business Correspondence. 3 sem. hrs.	Mrs. Douglas
337. Report Writing. 3 sem. hrs.	Mrs. Douglas
432. Teaching Commercial Subjects. 3 sem. hrs.	Mrs. Terrell

Second Term

MARKETING

332. Principles of Marketing. 3 sem. hrs.	Mr. Golden
346. Statistics. 4 sem. hrs.	Mr. Blackwell
433. Salesmanship. 3 sem. hrs.	Mr. Golden

435. Business Cycles and Forecasts. 3 sem. hrs. Mr. Blackwell

SECRETARIAL ADMINISTRATION

236. Intermediate Shorthand. 3 sem. hrs. Staff
333. Business Correspondence. 3 sem. hrs. Staff

MATHEMATICS

First Term

121. Algebra. 2 sem. hrs. Mr. Parker
122. Algebra. 2 sem. hrs. Mr. Heineman
130. Algebra. 3 sem. hrs. Mrs. Rowland
131. Trigonometry. 3 sem. hrs. Mrs. Rowland
132. Analytic Geometry. 3 sem. hrs. Mr. Sparks
137. Commercial Algebra. 3 sem. hrs. Mrs. Holland
138. Mathematics of Finance. 3 sem. hrs. Miss May
231. Differential Calculus. 3 sem. hrs. Mr. Heineman
233. Calculus Applications. 3 sem. hrs. Mr. Lindsay
238. Statistics. 3 sem. hrs. Mrs. Holland
321. Differential Equations. 2 sem. hrs. Mr. Lindsay
332. Differential Equations. 3 sem. hrs. Staff
337. Higher Geometry. 3 sem. hrs.
(Primarily for teachers of high school geometry) Mr. Parker
434. Advanced Calculus. 3 sem. hrs. Mr. Sparks
438. Solid Analytic Geometry. 3 sem. hrs. Miss May
601. Thesis Staff

Second Term

122. Algebra. 2 sem. hrs. Mr. Underwood
130. Algebra. 3 sem. hrs. Mrs. Roberts
131. Trigonometry. 3 sem. hrs. Miss McGlothlin
132. Analytic Geometry. 3 sem. hrs. Mr. Woodward
138. Mathematics of Finance. 3 sem. hrs. Miss McGlothlin
232. Integral Calculus. 3 sem. hrs. Mr. Hazlewood
321. Differential Equations. 2 sem. hrs. Mrs. Roberts
332. Differential Equations. 3 sem. hrs. Staff
433. Theory of Equations. 3 sem. hrs. Mr. Woodward
435. Advanced Calculus. 3 sem. hrs. Mr. Underwood
439. Vector Analysis. 3 sem. hrs. Mr. Hazelwood
601. Thesis Staff
Ast. 111. Survey of Astronomy. 1 sem. hr. Mr. Underwood

MECHANICAL ENGINEERING

First Term

- | | | |
|------|--|---------------------------|
| 221. | Engineering Problems. 2 sem. hrs., 3 lec. hrs.,
6 lab. hrs. | Mr. Rice |
| 311. | Pattern Shop. 1 sem. hr., 9 lab. hrs. | Mr. Hardgrave
Mr. Ford |
| 312. | Foundry Practice. 1 sem. hrs., 9 lab. hrs. | Mr. Hardgrave
Mr. Ford |
| 313. | Machine Shop. 1 sem. hr., 9 lab. hrs. | Mr. Hardgrave
Mr. Ford |
| 317. | Heat Engineering Laboratory. 1 sem. hr.,
9 lab. hrs. | Mr. Rice |
| 330. | Thermodynamics. 3 sem. hrs. | Mr. Godeke |
| 334. | Elementary Thermodynamics. 3 sem. hrs. | Mr. Newell
Mr. Monasch |
| 337. | Metallurgy. 3 sem. hrs. | Mr. Godeke |
| 423. | Internal Combustion Engines. 2 sem. hrs. | Mr. Newell |
| 431. | Power Plant Laboratory. 3 sem. hrs.,
18 lab. hrs. | Mr. Martin |
| 438. | Heating, Ventilating, and Air Conditioning.
3 sem. hrs. | Mr. Monasch |
- Note: In case of greater demand M. E. 341 may be substituted for M. E. 330.

Second Term

- | | | |
|------|---|---------------------------|
| 241. | Mechanism and Dynamics. 2 sem. hrs. | Mr. Overmyer |
| 314. | Machine Shop. 1 sem. hr., 9 lab. hrs. | Mr. Hardgrave
Mr. Ford |
| 315. | Heat Treating of Steel. 1 sem. hr.,
9 lab. hrs. | Mr. Hardgrave
Mr. Ford |
| 316. | Welding Practice. 1 sem. hr., 9 lab. hrs. | Mr. Hardgrave
Mr. Ford |
| 318. | Heat Engineering Laboratory. 1 sem. hr.,
9 lab. hrs. | Mr. McDonald |
| 331. | Thermodynamics. 3 sem. hrs. | Mr. McDonald |
| 335. | Heat Engines. 3 sem. hrs. | Mr. Powell |
| 424. | Internal Combustion Engines. 2 sem hrs. | Mr. Williams |
| 439. | Heating, Ventilating and Air Conditioning.
3 sem. hrs. | Mr. Williams |
- Note: In case of greater demand M. E. 322 may be substituted for M. E. 331.

MUSIC

First Term

MUSIC EDUCATION

- | | | |
|------|---|---------------------|
| 321. | Band Conducting and Methods.
2 sem. hrs. | Mr. Wiley and Staff |
| 327. | Choral Methods and Techniques.
2 sem. hrs. | Mr. Hemmle |
| 337. | Music Education. 3 sem. hrs. | Mr. Hemmie |
| 421. | Band Conducting and Methods.
2 sem. hrs. | Mr. Wiley and Staff |
| 422. | Band Conducting and Methods.
2 sem. hrs. | Mr. Wiley and Staff |
| 431. | Administration of the School Band.
3 sem. hrs. | Staff |
| 432. | A Survey of Teaching Materials for Band.
3 sem. hrs. | Staff |
| 521. | Band Conducting for Graduate Students.
2 sem. hrs. | Mr. Wiley |
| 522. | Band Conducting for Graduate Students.
2 sem. hrs. | Mr. Wiley |

MUSIC HISTORY AND LITERATURE

- | | | |
|------|--|-----------|
| 335. | History and Appreciation. 3 sem. hrs. | Mr. Blitz |
| 523. | Symphonies. 2 sem. hrs. | Mr. Wiley |
| 524. | Symphonies and Symphonic Poems.
2 sem. hrs. | Mr. Wiley |

APPLIED MUSIC

Class Instruction

- | | | |
|--------|--|----------------------|
| 115-6. | Band. 1 sem. hrs. each.
(Sophomore, junior, and senior courses offered in sequence) | Mr. Haddon and Staff |
| 125-6. | Band. 2 sem. hrs. each.
(Sophomore, junior, and senior courses offered in sequence) | Mr. Wiley and Staff |
| 431. | Strings. 3 sem. hrs. | Mr. Blitz |
- Private Instruction* (For assignment to instructor, see Head, Dept. of Music)
- | | | |
|--------|--|-------|
| 115-6. | Applied Music. Voice or instrumental. 1 sem. hr. each. (Sophomore, junior, and senior courses offered in sequence) | Staff |
|--------|--|-------|

- 125-6. Applied Music. Voice or instrumental. 2 sem. hrs., Staff
each. (Sophomore, junior, and senior courses
offered in sequence)

ORGANIZATIONS

010. Chorus. 1 sem. hr. Mr. Hemmle

Second Term

MUSIC EDUCATION

438. Junior and Senior Methods. 3 sem. hrs. Mr. Hemmle

MUSIC HISTORY AND LITERATURE

336. History and Appreciation. 3 sem. hrs. Mr. Hemmle

APPLIED MUSIC

Private Instruction

- 115-6. Applied Music. Voice or instrumental.
1 sem. hr. each. Staff
(Sophomore, junior and senior courses offered in
sequence)
125-6. Applied Music. Voice or instrumental.
2 sem. hrs. each. Staff
(Sophomore, junior and senior courses offered in
sequence)

PETROLEUM ENGINEERING

First Term

331. Petroleum Development Methods.
3 sem. hrs. Mr. Johnson
410. Seminar. 1 sem. hr. Mr. Ducker

Second Term

333. Petroleum Production Methods. 3 sem. hrs. Mr. Johnson
411. Seminar. 1 sem. hr. Mr. Ducker

PHYSICAL EDUCATION FOR MEN

First Term

113. Physical Education. 1 sem. hr.,
6 lab. hrs. Mr. Robison
213. Physical Education. 1 sem. hr., 6 lab. hrs. Mr. Jennings

3311. Methods of Teaching Physical Education in High School. 3 sem. hrs., 9 lec. hrs. Mr. Jennings
 431. Theory and Practice of Coaching. 3 sem. hrs., 9 lec. hrs. Mr. Morris

Second Term

114. Physical Education. 1 sem. hr., 6 lab. hrs. Mr. Morris
 214. Physical Education. 1 sem. hr., 6 lab. hrs. Mr. Jennings
 432. Theory and Practice of Coaching. 3 sem. hrs., 9 lec. hrs. Mr. Robison

PHYSICAL EDUCATION FOR WOMEN

First Term

212. Tennis. 1 sem. hr. Mrs. Langford
 230. Principles of Health Education. 3 sem. hrs. Mrs. Langford
 436. Physical Examination in Physical Education. 3 sem. hrs. Staff
 438. Problems in Curriculum Construction in Physical Education. 3 sem. hrs. Staff

Second Term

212. Tennis. 1 sem. hr. Miss Rainey
 2115. Badminton. 1 sem. hr. Miss Rainey
 233. Methods in Physical Education for the Elementary School Teacher. 3 sem. hrs. Miss Rainey
 435. Modern Trends in Physical Education. 3 sem. hrs. Staff
 437. Tests and Measurements in Physical Education. 3 sem. hrs. Staff

PHYSICS

First Term

131. Elements of College Physics. 3 sem. hrs., 9 lec. hrs., 6 lab. hrs. Mr. Merryman

132.	Elements of College Physics. 3 sem. hrs., 9 lec. hrs., 6 lab. hrs.	Mr. Gott
141.	General Physics. 3 sem. hrs., 12 lec. hrs., 6 lab. hrs.	Mr. Merrymon
215.	Physical Measurements. 1 sem. hr., 9 lab. hrs.	Mr. Summers
216.	Physical Measurements. 1 sem. hr., 9 lab. hrs.	Mr. Steffy
235.	Engineering Physics. 3 sem. hrs., 9 lec. hrs.	Mr. Summers
236.	Engineering Physics. 3 sem. hrs., 9 lec. hrs.	Mr. Steffy
312.	Modern Physics Laboratory. 1 sem. hr., 9 lab. hrs.	Mr. Gott
337.	Introduction to Modern Physics. 3 sem. hrs., 9 lec. hrs.	Mr. Gott
415.	Special Projects. 1 sem. hr., 9 lab. hrs.	Staff

Second Term

132.	Elements of College Physics. 3 sem. hrs., 9 lec. hrs., 6 lab. hrs.	Mr. Elliott
142.	General Physics. 4 sem. hrs., 12 lec. hrs., 6 lab. hrs.	Mr. Elliott
215.	Physical Measurements. 1 sem. hr., 9 lab. hrs.	Mr. Day
216.	Physical Measurements. 1 sem. hr., 9 lab. hrs.	Mr. Schmidt
235.	Engineering Physics. 3 sem. hrs., 9 lec. hrs.	Mr. Day
236.	Engineering Physics. 3 sem. hrs., 9 lec. hrs.	Mr. Schmidt
313.	Modern Physics Laboratory. 1 sem. hr., 9 lab. hrs.	Staff
338.	Introduction to Modern Physics. 3 sem hrs., 9 lec. hrs.	
416.	Special Projects. 1 sem. hr., 9 lab. hrs.	Staff

PLANT INDUSTRY

First Term

AGRICULTURAL ENGINEERING

321.	Farm Shop. 2 sem. hrs., 3 lec. hrs., 9 lab. hrs.	Mr. Sullivan
322.	Farm Shop. 2 sem. hrs., 3 lec. hrs., 9 lab. hrs.	Mr. Sullivan
411.	Soil Management Laboratory. 1 sem. hr., 9 lab. hrs.	Mr. Sullivan

AGRONOMY

131. The Fundamentals of Crop Production. 3 sem. hrs.,
6 lec. hrs., 9 lab. hrs. Mr. Ayers and Mr. Morrow
221. Soils. 2 sem. hrs. Mr. Burnett
331. Forage and Pasture Crops. 3 sem. hrs.,
6 lec. hrs., 9 lab. hrs. Mr. Morrow
422. Soil Management. 2 sem. hrs. Mr. Young
514. Graduate Seminar. 1 sem. hr. Mr. Ayers
532. Agronomy Problems. 3 sem. hrs. Mr. Young
601. Thesis Mr. Young

PLANT INDUSTRY

331. Plant Insects and Diseases and Their Control.
3 sem. hrs. Mr. Morrow
341. Principles of Genetics. 4 sem. hrs., 9 lec. hrs.,
9 lab. hrs. Mr. Ayers
441. Plant Production. 4 sem. hrs., 9 lec. hrs.,
9 lab. hrs. Mr. Burnett
535. Research Methods. 3 sem. hrs. Mr. Young

Second Term

AGRONOMY

533. Agronomy Problems. 3 sem. hrs. Mr. Leidigh
601. Thesis Mr. Leidigh

HORTICULTURE

131. Principles of Horticulture and Plant Propagation.
3 sem. hrs., 6 lec. hrs., 9 lab. hrs. Mr. Yocum
231. Vegetable Gardening. 3 sem. hrs., 6 lec. hrs.,
9 lab. hrs. Mr. LaGasse and Mr. Yocum

PLANT INDUSTRY

341. Principles of Genetics. 4 sem. hrs., 9 lec. hrs.,
9 lab. hrs. Mr. Leidigh

SPEECH

First Term

- | | | |
|-------|-----------------------------------|----------------|
| 338. | Business and Professional Speech. | |
| | 3 sem. hrs. | Miss Pendleton |
| 432. | Speech Correction. 3 sem. hrs. | Miss Lindell |
| 4314. | Speech Pathology. 3 sem. hrs. | Miss Lindell |
| 601. | Thesis | Staff |

Second Term

- | | | |
|------|-------------------------------------|----------------|
| 131. | Fundamentals of Speech. 3 sem. hrs. | Mr. Ward |
| 335. | Radio Speech. 3 sem. hrs. | Mr. Cunningham |
| 338. | Business and Professional Speech. | |
| | 3 sem. hrs. | Mr. Ward |
| | | Mr. Cunningham |

TEXTILE ENGINEERING

First Term

- | | | |
|------|---|-------------|
| 234. | Cotton Classing and Marketing. 3 sem. hrs., | |
| | 6 lec. hrs., 9 lab. hrs. | Mr. Parsons |

BIBLICAL LITERATURE

First Term

- | | | |
|--------|--|-----------------------|
| *131. | Survey of the Old Testament. 3 sem. hrs. | Mr. Wolber |
| †132. | Survey of the New Testament. 3 sem. hrs. | Mr. Spain |
| †221. | Book of John. 2 sem. hrs. | Mr. Spain |
| *†313. | Book of James. 1 sem. hr. | Mr. Wolber, Mr. Spain |
- * Sponsored and supported by the Baptist General Convention of Texas.
- † Sponsored by the Church of Christ

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