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TEXAS TECHNOLOGICAL COLLEGE

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SUMMER SESSION

1959

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COLLEGE CALENDAR
SUMMER SESSION
1959

First Term

June 2. Tuesday. Summer session begins. 10 A.M. Dormitories open for room occupancy. Lunch served as first meal in dormitories. 1 P.M. Entering freshmen assemble in C101. 2-5 P.M. Begin registration.

June 3. Wednesday, 8-12 A.M. and 1:30-5 P.M. Registration.

June 4. Thursday. 7:20 A.M. Classes begin.

June 8. Monday. Last day to register for the first term. Last day to add courses.

June 13. Saturday. Day of instruction for all classes.

June 16. Tuesday. Last day on which a student may drop, without grade penalty, a course in which he is failing.

June 27. Saturday. Day of instruction for all classes.

July 4. Saturday. American Independence Day. College holiday.

July 6. Monday, 7:20 A.M. Classes resumed.

July 7. Tuesday. Last day to file Personnel Information Forms and photographs at the Placement Office for students enrolled in first term of Summer Session. Last day for first-term summer students to pay the $5 graduation fee at Business Office to receive a diploma at Commencement. Last day to secure refund of $5 graduation fee if plans for graduation have to be changed. Last day to file with the student's academic dean the statement of intention to graduate on Aug. 22, 1959.

July 9. Thursday. Deans will submit tentative lists of all degree candidates to the Registrar.

July 13, 14. Monday-Tuesday. Final examinations.

July 14. Tuesday. First term ends. Dormitory dining rooms close with serving of noon meal. Students without room reservations for the second term must vacate dormitory rooms by 2 P.M.

Second Term

July 14. Tuesday. Second term begins. 2 P.M. Dormitories open for room occupancy. Evening meal served as first meal in dormitories.

July 15. Wednesday. 8 A.M. Entering freshmen assemble in C101. 8-12 A.M. and 1:30-5 P.M. Registration.

July 16. Thursday. 7:20 A.M. Classes begin. Last day to order senior invitations.

July 20. Monday. Last day to register for the second term. Last day to add courses.

July 22. Wednesday. Last day to order academic regalia.

July 25. Saturday. Day of instruction for all classes.

July 30. Thursday. Last day on which student may drop, without grade penalty, a course in which he is failing. Last day to accept $5 graduation fee for students enrolled in second term only.

Aug. 1. Saturday. Day of instruction for all classes.

Aug. 8. Saturday. Day of instruction for all classes.

Aug. 12. Wednesday. Last day to submit to the Graduate Dean the final draft of theses and dissertations, and to pay the binding fee.

Last day to complete work for removal of grades of "Inc." and "Pr." for degree candidates. Instructors are to send Change-of-Grade card to student's academic dean's office as soon as work has been completed. Last day to complete correspondence courses. Instructors are to file grades for correspondence work not later than Aug. 13. Last day to submit to student's academic dean a request to graduate **in absentia.** Students enrolled in the second term only have until this day to file Personnel Information Forms and photographs at the Placement Office.

Aug. 19, 20. Wednesday, 1 P.M. - Thursday. Final examinations.

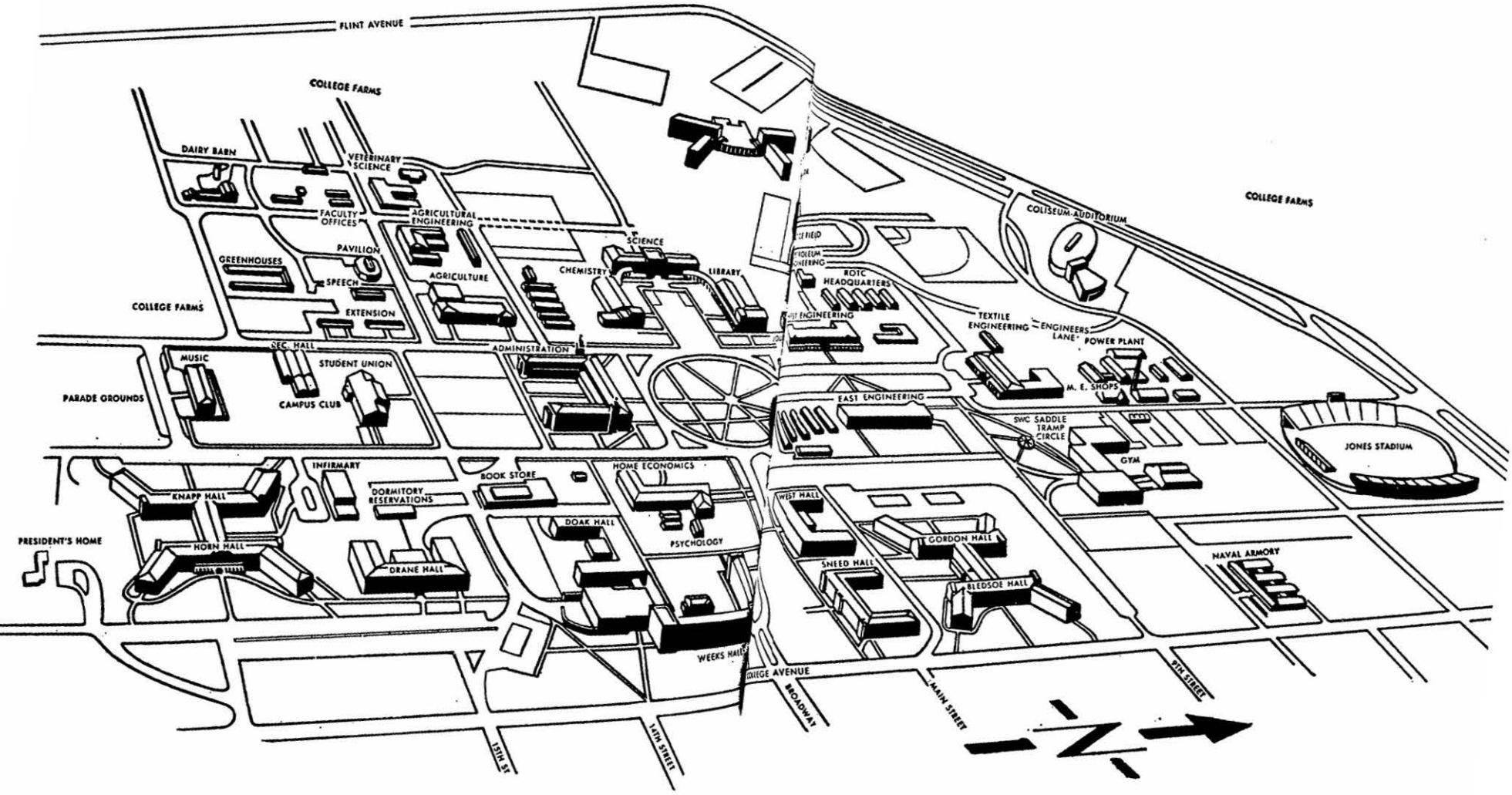
Aug. 20. Thursday. Dormitory dining rooms close with serving of evening meal.

Aug. 21. Friday, 12 Noon. Grades and reports of absences for degree candidates due at the Registrar's Office. 3 P.M. Each academic dean will send to the Registrar's Office the final and official list of graduates in his school.

Aug. 22. Saturday. 8:30 A.M. Rehearsal for Commencement, all August graduates. By 12 Noon. Degree candidates pick up academic regalia at the College Bookstore. 3:30-4:30 P.M. President's reception for graduating seniors. 7:15 P.M. Commencement Exercises. Second term ends. Summer session closes.

Aug. 23. Sunday. 10 A.M. Students must vacate dormitory rooms.

Aug. 24. Monday, 12 Noon. Grades and absence reports on all students due at Registrar's Office.


FLINT AVENUE
COLLEGE FARMS
DAIRY BARN
VETERINARY SCIENCE
FACULTY OFFICES
AGRICULTURAL ENGINEERING
PAVILION
GREENHOUSES
SPEECH
AGRICULTURE
EXTENSION
COLLEGE FARMS
SCIENCE
CHEMISTRY
LIBRARY
ROTC HEADQUARTERS
ENGINEERING
COLISEUM-AUDITORIUM
COLLEGE FARMS
TEXTILE ENGINEERING
ENGINEERS LANE
POWER PLANT
SEC. HALL
MUSIC
STUDENT UNION
ADMINISTRATION
PARADE GROUNDS
CAMPUS CLUB
EAST ENGINEERING
M. E. SHOPS
SWC SADDLE TRAMP CIRCLE
GYM
JONES STADIUM
INFIRMARY
BOOK STORE
HOME ECONOMICS
KNAPP HALL
DORMITORY RESERVATIONS
WEST HALL
DOAK HALL
PSYCHOLOGY
PRESIDENT'S HOME
HORN HALL
GORDON HALL
NAVAL ARMORY
DRANE HALL
SNEED HALL
BLEDSOE HALL
WEEKS HALL
COLLEGE AVENUE
BROADWAY
MAIN STREET
4TH STREET
N
W
E
S

GENERAL INFORMATION

The College

LOCATION

Texas Technological College is a state-supported coeducational college. It is located at Lubbock, approximately 200 miles from the northern line of the Panhandle of Texas and 400 miles northwest of the state capital at Austin. Lubbock is in the South Plains area with an elevation of 3,200 feet above sea level.

The city and suburbs have a permanent population of approximately 148,725. Excellent churches, schools, hotels, and shopping centers are available. Two railway systems, an interstate bus line, an excellent highway system, and three airlines operate through the city.

HISTORY

Texas Technological College was established by an act of the Thirty-Eighth Legislature of the State of Texas, passed in 1923. This act authorized establishment of a college west of the ninety-eighth meridian and north of the twenty-ninth parallel. The act authorized the establishment of a coeducational college of a senior class.

The first buildings were erected and opened to students Sept. 30, 1925. The physical plant is now valued at over $29 million.

The first president was Paul Whitfield Horn (1925-32). He was followed by Bradford Knapp (1932-38), Clifford B. Jones (1938-44, President Emeritus, 1944-), William Marvin Whyburn (1944-48), Dossie M. Wiggins (1948-52), and Edward N. Jones (1952-).

GOVERNMENT

The government of the College is vested in a board of nine directors appointed by the Governor and approved by the Senate for terms of six years. The immediate regulations and direction of academic affairs are delegated by the Board of Directors to the President, administrative officers, and faculty.

LIBRARY

The Library of Texas Technological College, consisting of 186,398 catalogued volumes, 52,385 periodicals, and 144,880 documents, is housed in a separate building near the center of the campus. Among the facilities for student services are the reserve reading room, a general reading room, and areas 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 13 professionally trained librarians and 21 sub-professionals, providing service during all hours the Library is open.

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: 7:20 A.M. to 9:30 P.M., Monday through Friday; 7:20 A.M. to 4:30 P.M. Saturday; closed Sundays and holidays.

THE SOUTHWEST COLLECTION

The Southwest Collection, housed in The Museum and sponsored by the West Texas Museum Association, was established as a separate department of the College in 1955 for the acquisition and preservation of books and archival material of significance to the history of the American Southwest. The long-range purpose of the collection is the development of a great research center in history, making Texas Technological College the foremost institution in the nation in southwestern materials.

The Southwest Collection now includes an excellent library of books dealing with the history of this area, a fine group of manuscript ranch records of such important ranches as the Matador and Spur, some early colonization papers, area newspapers, microfilms, collections of private papers of individuals and business firms, and other archival materials. The project is supported by the College and augmented by private donations of money and materials.

The material in the Southwest Collection is primarily for research purposes and is open to students, faculty, visiting scholars, and other interested persons; but as one of the chief purposes is preservation of the material, use must be made of it in the room.

WEST TEXAS MUSEUM

The Museum building, representing an investment of approximately $500,000, houses collections of more than that amount. The latest addition has been the opening of the new Hall of Earth and Man, and the outstanding attraction continues to be the historical fresco mural executed by Peter Hurd on the walls of the Rotunda. The total value of the Museum's assets is now over $1,000,000.

A good beginning has been made in collecting objects of scientific, historic, and artistic value. The facilities of The Museum are open for the use of students, faculty, school children of the area, women's clubs, civic organizations, and all other persons and groups interested in the cultural history of the region.

A Spitz Planetarium has been installed in a temporary "Theatre of the Skies" behind The Museum. Special demonstrations on week-days are given by appointment with The Museum secretary.

The Plains Museum Society, which was originated in 1929, was changed to the West Texas Museum Association in 1936. The object of this association is to foster, increase, and diffuse among the people of this section and of the state a knowledge and appreciation of history, science, and art. Membership is open to any person actively interested in the work of the association.

The Graduate School

Information concerning requirements for admission to the Graduate School and for graduate degrees will be found in the Graduate Bulletin, copies of which may be secured by addressing the Registrar.

Major work leading to the appropriate master's degree is offered in the following subjects: accounting, agricultural economics, agricultural education, agronomy, animal husbandry, botany, business education, chemistry, chemical engineering, civil engineering, clothing and textiles, dairy industry, economics, education, electrical engineering, English, finance, food and nutrition, geology, government, health and physical education and recreation (for men and for women), history, home economics education, horticulture and park management, management, marketing, mathematics, mechanical engineering, music education, physics, psychology, sociology, Spanish, speech, and zoology. Minor work for the master's degree is available in several additional departments.

Major work leading to the Degree of Doctor of Philosophy is offered in chemistry, English, history, and psychology. The Degree of Doctor of Education is also offered.

Division of Extension

Approximately 250 college 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 attend classes in residence. Credit courses may count on degrees and teacher's certificates (or college entrance). A list of available courses may be secured upon request from the Division of Extension, Texas Technological College.

Special Education Program

A joint program involving the Departments of Education, Applied Arts, Psychology, Physical Education, and Speech will be offered during the two summer terms which will lead to certification by the Texas Education Agency in the field of special education for the visually handicapped. The student is advised to consult the heads of the departments mentioned above for details as to specific courses acceptable in this program.

Teacher Certification

All individuals who enroll for the first time in a program leading to a certificate to teach in any subject and in any level in the elementary and secondary schools should contact the Director of Teacher Certification in the Administration Building.

West Texas Cooperative Audio-Visual Services

Since 1938 the Extension Division has rendered film distribution service to schools of the West Texas area. During the summer of 1952 the administration of Texas Technological College and the school administrators of the area agreed upon pooling their resources to provide increased educational film distribution services. Increased film distribution, housing and preview facilities, and audio-visual consultant service have been provided to enrich education in West Texas through cooperative effort.

Health Service

Health service benefits are available to students regularly enrolled in summer school. The College Infirmary, an 18-bed unit, provides an accommodation 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. Students judged to be in need of infirmary care by the College Physician may be admitted to the infirmary where they are under the constant supervision of the physician and a registered nurse. Neither the out-patient clinic nor the infirmary is financially able to give students unlimited medical service. The cost of special or expensive medication, examinations, treatments, X-ray examinations, and special laboratory tests must be paid by the student. Except for the above services, no charge is made for infirmary care up to a maximum of three and one-half days each six-week term; a minimum fee to cover the cost of food, drugs, supplies, and any special services is charged the student for each additional day in the infirmary. In case the infirmary is filled to capacity, the College is not under obligation to provide students with hospital service elsewhere.

The Student Health Service 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 physicians, danger of transmission has passed.

Testing and Counseling Center

The Testing and Counseling Center located on the campus has been established to aid the student in deciding on a major or an occupational objective, and in meeting problems of a personal nature.

The tests used are selected to fit the needs of the individual, but usually cover the areas of general intelligence, achievement in school subjects, interests, personality and special aptitudes.

Students desiring the services of the Testing and Counseling Center should call PO5-8541, Extension 331, or come to the Center for an ap-

pointment. Appointments may be made for any day, Monday through Friday, 8 A.M. to 5 P.M. and Saturday forenoons.

All service is on a fee basis, payable to the College. Students of Texas Technological College are charged $7.50. Extended follow-up counseling usually requires some additional fee.

Recreation

The on-campus recreation program during the summer session is centered primarily in the Tech Union Building and sponsored by the Tech Union Summer Program Council. This series of programs is made possible by virtue of the Tech Union fee and is open to all summer school students.

Each summer the Union offers a well-balanced series of programs of professional entertainment, weekly movies, dances, special events, billiards, ping pong, bridge and other table games, splash parties, and swimming. The Tech Union endeavors to provide food service, leisure-time activities, and meeting facilities for the entire campus. The services and programs of the Union are open to all students, wives, children, and faculty, who are cordially invited to participate.

Other recreation facilities in Lubbock, such as swimming, golf, tennis, boating, and picnics, are available either on the campus, at Mackenzie State Park, Buffalo Lakes, or K. N. Clapp Pool.

Placement Service

The Placement Service is a central agency which brings together employers, students, and faculty. Its facilities are at the disposal of all students regardless of major fields of study or professional interest. The College offers placement service to alumni and ex-students.

For those students who find it necessary to earn a portion of their expenses while attending college, The Placement Service is able to assist in finding part-time positions with Lubbock business firms and on the campus. Employers representing the public schools or business and industry should file requests for personnel with the Placement Office. Correspondence relative to employment of students and graduates should be addressed to that office.

Details and coverage offered may be received from the Director, The Placement Service, Room 150, 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 each summer term from students who desire to dispose of such books.

Reserve Officers' Training Corps

DEPARTMENT OF AIR SCIENCE

The United States Air Force maintains a senior division of AF ROTC at Texas Technological College. The mission of the AF ROTC is to select and prepare students to serve as officers in the regular and reserve components of the United States Air Force.

The AF ROTC curriculum is divided into a basic course covering the first two years and an advanced course covering the junior year, summer camp and senior year in that order.

The AF ROTC curriculum is general in nature and offers subjects not available elsewhere in the College curriculum. The basic course is designed specifically to give the student desirable citizenship training in an air age equally appropriate to the student, whether he continues in

civilian status or joins the military. The advanced course is designed primarily to develop an Air Force commissioned officer with high growth potential, and secondarily, to produce a second lieutenant to enter immediately either into the flying training, or specialized and technical training program, or an on-the-job training position in a field closely allied to his major field of academic study.

Requirements for enrollment in AF ROTC are: be a citizen of the United States, be physically qualified, be accepted by the College as a regularly enrolled full-time student, be not less than 14 and not over 23 years of age, veterans excepted, at the time of initial enrollment.

All physically fit male students of freshman and sophomore years, except veterans, are required to elect either band, physical education, air or military science. A minimum of 4 semester hours of physical education, band, or Basic ROTC must be completed. Advanced ROTC may be substituted for 6-12 hours of course work, subject to the approval of the student's department head. Should the student elect air science, he agrees to complete the basic course unless released for reasons beyond his control.

A Selective Service draft deferment is obtained for each AF ROTC student who maintains academic requirements and otherwise remains in good standing.

No AF ROTC courses will be offered during the summer of 1959.

DEPARTMENT OF MILITARY SCIENCE and TACTICS

The United States Army maintains a senior division unit of ROTC at Texas Technological College. The mission of the Army ROTC is to select and prepare students to serve as officers in the regular and reserve components of the United States Army. Commissions may be given in 15 branches or specialties of the Army.

The Army ROTC curriculum is divided into the basic course covering the first two years and the advanced course covering the junior year, summer camp, and senior year, in that order. All students pursue the same course for the four years. Assignment to branch is made on commissioning based on the student's preference, his academic course, recommendation of the ROTC staff and other college faculty, and the current needs of the Army.

Instruction in the Army ROTC emphasizes leadership and the ability to command and control men.

Requirements for enrollment in the Army ROTC are: be a citizen of the United States, be physically qualified, be acceptable to the College as a regularly enrolled student, be not less than 14 years of age and be able to complete the advanced course, and obtain his baccalaureate degree prior to his reaching 28.

All physically fit male students of the freshman and sophomore years, except veterans, are required to elect either band, physical education, or air or military science. Should the student elect to take military science, he agrees to complete the basic course unless released for reasons beyond his control.

Veteran students may apply for advanced standing in ROTC dependent on their length of service and their college class standing (sophomore, junior, senior, etc.).

No ROTC course will be offered during the summer of 1959.

Admission to Candidacy For Graduation

A student who registers for the semester or summer session in which he plans to complete work for a Bachelor's Degree, but who has less than the number of grade points required for graduation, will be granted only conditional admission to candidacy. In this status, the student's ordering of a diploma and making

other plans for graduation will be entirely on his own responsibility.

Requirements for admission to candidacy for a master's or doctor's degree are explained in the Graduate Bulletin.

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 Saturday, Aug. 22.

Other Academic Regulations

For regulations covering probation, withdrawing from college, dropping courses, grades, and other matters, see the current General Information Bulletin.

Further Information

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

THE SUMMER SESSION

The summer session is an integral part of the year-round program at Texas Technological College. 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 summer school students.

The 1959 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. Beginning courses are offered in most all of the basic freshmen curricula. Students with deficiencies in English, mathematics, science, or other subjects are strongly urged to attend the summer session to remove such conditions and prevent delay in graduation. Entering freshmen will also be able to take the placement tests rather than during the more crowded fall testing period. All entering freshmen will be required to take the freshman tests. Ordinarily, the freshman student will be admitted on his high school transcript and the freshman test scores are used for assignment to classes, counseling and guidance. The student who misses the freshman testing program will be seriously delayed in his final registration. These tests may be taken on any one of the following days. (Testing time—one day only, $2 fee to be paid at the time of testing.)

May 11, 25. Monday. 9 A.M. Agriculture Auditorium.

June 1. Monday. 9 A.M. Agriculture Auditorium.

June 2. Tuesday. 1 - 5:30 P.M. Chemistry Building, Rm. 101.

July 14. Tuesday. 8 A.M. Chemistry Building, Rm. 101.

2. Students of the Long Session will find the summer school profitable for making up courses or speeding up their college training. Freshmen students who plan to enroll in the long session may take the placement tests at any of the testing periods listed above or at 9 A.M. on June 8, 15, 22, or 29 in the Agriculture Auditorium.

Students who are unable to come for testing early will be examined following the assembly on the Administration green at 8 A.M., Tuesday, Sept. 14, 1959.

How to Make Application for Early Testing. Write a card or letter to the Testing and Counseling Center, Texas Tech, Lubbock, Texas, and state the date you plan to be tested according to the test schedule above. This should be done immediately. Students who complete all admission requirements and take the tests in May, June or July will receive an early registration time.

3. Teachers, School Administrators and Special Certified Personnel. The summer program, both undergraduate and graduate, is particularly designed to meet the needs of persons seeking certification as teachers and administrators in the elementary and secondary schools. In addition the graduate program provides opportunity for individuals to meet requirements for new certification regulations in teaching, supervision, curriculum, and administration as well as for conversion of certificates no longer valid. Special seminars and workshops for teachers are available to meet special needs.

4. Graduate Students. Full graduate work will be offered in summer school leading to the degrees indicated under "Graduate School."

Admission

The Dean of Admissions has charge of all matters pertaining to admission to any school of the College. Each new student is required to file an application on a blank which may

be secured from the admission office, Administration Building, Room 154. In addition, regular students must submit a complete transcript from the high school or the college previously attended. The new student is urged to send in credentials well in advance of registration date.

Admission by High School Certificate. For entering freshmen, the first requirement for admission is graduation from an accredited high school. The following units are the uniform requirements for admission to any school of the College.

1. English	3
2. Mathematics — algebra, geometry, trigonometry*	2
3. Social science	2
4. Laboratory science	1
5. Electives	7

Admission by High School Certificate with Condition. The study of engineering requires a thorough background of high school preparation in mathematics and physics. A prospective engineering student is urged, therefore, to present two units in algebra and one in plane geometry. Likewise, one unit in physics should be included in the two units required in science. Any student lacking one of the suggested units in algebra, geometry, or physics is strongly urged to attend summer school to remove this deficiency, rather than wait for the fall semester.

Admission from Other Colleges and Universities. Undergraduate students who have attended another college, and who are not under disciplinary or scholastic suspension, may be admitted on presentation of an official transcript which will meet the following admission requirements in each of the last two semesters of attendance or on the total attendance if less than two semesters. Grade points are computed as follows: for each hour of A, 3; B, 2; C, 1; D, E, or F, none.

A student taking 12 or more semester hours must, if a first-year student, pass in at least 9 semester hours and make 3 or more grade points; if a second-year student, at least 9 semester hours with 6 or more grade points. A third-year student, or above, taking 12 or more semester hours must pass in a minimum of 12 semester hours with at least 12 grade points.

Any student taking less than 12 semester hours must pass in approximately three-fourths of the courses undertaken and make 3 or more grade points if a first-year student, or as many grade points as hours undertaken if a second-, third-, or fourth-year student.

Admission to the Graduate School. The applicant with a bachelor's degree from Texas Technological College or other recognized college or university may be granted admission to the Graduate School on the basis of a complete transcript from each college attended. However, a satisfactory score on the Aptitude Test of the Graduate Record Examinations is required for admission to a graduate degree program. Prospective graduate students should familiarize themselves with the regulations set forth in the Graduate School Bulletin.

Transient Students. Students enrolled in other colleges who plan to attend the **summer session only** may be admitted without the necessity of formal transcript of record from the former college. Such students, however, should furnish a letter from the registrar of the previous college indicating classification and present scholastic standing. Admission as a transient student does not guarantee admission as a regular student in the following fall semester. Regular students must present transcripts and meet regular admission requirements.

*One unit in general mathematics may be accepted for admission to the Schools of Agriculture, Business Administration, Home Economics, and for non-scientific majors in Arts and Sciences.

Class Work and Routine

Student Load. The normal load for a six-week term is 6 semester hours. A student will not 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 academic 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.

Auditing Classes. Permission to audit classes may not be granted in case the class is crowded and is not granted to students enrolled in summer session courses which are scheduled for less than the regular six-week term.

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.

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 schedule is approved by his academic dean. No refund will be 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 $25. For resident students who enroll for less than 4 semester hours in any six-week term, the registration fee is $20 per term.

Registration Fee for Non-Resident Students. For non-resident students, the registration fee for a six-week term is $100. For non-resident students who enroll for less than 4 semester hours in any six-week term, the registration fee is $75 per term.

A non-resident student is defined on Pages 55 and 56 in the General Catalog, 1958-59.

Any student who wrongfully pays the Texas rather than the non-resident fee may be assessed a penalty not to exceed $10.

Veterans of the Spanish American War, World War I, World War II, or Korea, who are residents of Texas, may be eligible for benefits of the Hazlewood Act. See Page 59 of the General Catalog, 1958-59, or the Veteran Co-ordinator in the Registrar's Office.

Student Union Fee. This is a compulsory fee of $2.50 per six-week term set forth in Senate Bill No. 232, Regular Session, Fifty-Third Legislature.

Laboratory Fees. For all courses in which the combined credit of lecture and laboratory is from 1 to 3 semester hours, a laboratory fee of $2 is charged for each term. For courses in which the semester credit is 4 semester hours or more, the laboratory fee is $4 per term. A laboratory fee of $2 is charged for each freshmen student participating in the early registration counseling and testing program to cover laboratory materials and supplies.

General Property Deposit. A breakage 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 possession or use. The deposit, less charges, will be returned to the student at his request upon

*Texas Technological College reserves the right to change fees in keeping with acts of its Board of Directors or the Texas State Legislature.

termination of his tenure here as a student.

Graduation Fee. Graduating students will be charged a graduation fee of $5 for each degree granted. The fee will be refunded provided the student cancels his graduation intentions before the diploma has been printed and before other related steps are taken.

If the student does not cancel his intention to graduate in time, he must pay $2 for reordering the diploma insert only. If both the insert and the cover have to be reordered, the charge will be $5 as in the initial order. Students who graduate **in absentia** will pay a fee of $1.50.

Graduate Fees. The cost of such research items as questionnaires, charts, maps, slides, microfilm, photostats, postage, and so on, required by a graduate student for the completion of a thesis or research problem forming part of a graduate program for an advanced degree, will be borne by the student.

Special Fees.

Ceramics Fee:	
Allied Arts 421	$ 5.00
Course Fees:	
Accounting	4.00
Clothing and Textiles 411, 511	5.00
Geology 363 (Salida, Colo.)*	
Tuition	25.00
Room and Board	120.00
Course Fee	40.00
Transportation Fee	35.00
	$220.00
Geology 563 (Moab, Utah)*	
Tuition	$ 25.00
Course Fee	40.00
Transportation Fee	35.00
	$100.00
Home Economics Education 513	$ 2.00
Physical Education 012, 013	$ 5.00
Physical Education 4321	$ 20.00
Marketing 346	$ 4.00
Secretarial Administration 321	$ 9.00
Secretarial Administration 333	$ 4.00

A service fee of $4 will be charged for those courses in the School of Business Administration using IBM or office machines.

Workshop Fees. Students who enroll for a one-week workshop only with one semester hour of credit pay a registration fee of $10.

Duplicate Receipt Fee. A fee of 50 cents will be charged for each duplicate registration receipt issued.

Refund of Fees. Any student withdrawing officially during the first week of either summer term will receive a refund of 60 per cent of any registration fees paid, and during the second week, 20 per cent. A student who withdraws during the third week and thereafter of either summer term will receive no refund.

Once a student has registered for a laboratory class and attended the class, no refund of the laboratory fee will be made unless the College is at fault.

No refund on unused balance of deposits will be made until at least 30 days after the student terminates his residence here as a student.

In no case will fees be refunded to a student expelled from College by College authorities.

Refund of tuition or fees will not be made on courses of less than six-week duration.

Visitor's Fee. A fee of $10 for each course is required for the privilege of visiting any course. No credit may be obtained for auditing courses in this manner. See Page 95, General Catalog, 1958-59, for qualifications and limitations on visiting a course.

*A deposit of $25 must be made on or before March 1 for geology field courses. This deposit is refundable up to April 1 and forfeited as of that date if the student decides not to enroll for the field course.

Matriculation Fee. This is a $1 fee that each student must pay each term of the summer session.

Change in Class Schedule Fee. A fee of $3 will be paid each time a student initiates one or more changes in his previously approved class schedule. There will be no charge when the change is made for the convenience of the College.

MUSIC FEES EOR PRIVATE INSTRUCTION

Individual instruction in voice, piano, organ, strings, or wind instruments is offered by the Department of Music. The following costs are not covered by the College registration. They are payable in full at the time of registration.

For each one of the following courses in applied music:

Private Instruction

115, 116, 215, 216, 315, 316	$ 6
025, 026, 125, 126, 225, 226, 235, 236, 325, 326, 345, 346, 425, 426, 435, 436, 445, 446	$12
Practice room and piano rental payable at the Business Office: One hour per day per six-week term	$ 4
Each additional hour	$ 2

SUMMARY OF EXPENSES FOR SIX-WEEK TERM

Fees, Books and Supplies

Registration Fee (legal resident of Texas)	$ 25.00
General Property Deposit (refundable)	7.00
Student Union Fee (required)	2.50
Laboratory Fees (approximate)	4.00
Books and Supplies (approximate)	20.00
Matriculation Fee	1.00
Total for six-week term	$ 59.50
Board and Room in College Dormitory	108.00
Estimated grand total for six-week term	$167.50

Engineering students are required to purchase their own drawing equipment, slide rule, and other specialized items which cost approximately $55. These items, which entail extra expense at first, are utilized throughout the students' four years of study. Not all of this equipment need be purchased during the summer session, depending on the type of engineering courses taken.

Housing Facilities

All prices indicated below are subject to change without notice prior to registration date and with 10 days' notice thereafter.

The cost of regular room and board in the College dormitories, two per room, will be $108 per term of six weeks, payable in advance. Corner rooms will be $110.25 for six weeks. There are a few double rooms with bath which may he had at a cost, including board, of $119.25 for six weeks. If facilities are available, one student may occupy a double room for $119.25 per term of six weeks.

Dormitory Reservations. Applications for dormitory reservations will be made to the Office of Dormitory Reservations. A check for $20 must accompany the request. This will serve as a reservation fee, and will be held as a dormitory property deposit. It will be refunded, less any breakage charges, at the end of the term. If a student moves from the dormitory during the term, the $20 deposit will not be refunded.

Should a student find it impossible to enroll in the College he may apply for a refund of his reservation fee not later than May 15 for the first term of summer session, and June 30 for the second term of summer session.

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.

For information on off-campus living accommodations, inquiries should be directed to the office of the Dean of Student Life, where arrangements for non-dormitory housing will be considered.

WORKSHOPS, SHORT COURSES

Agricultural Engineering Workshops—Training Classes

1. Farm Shop Skills. For Vocational Agriculture Teachers. 5 days. Advanced farm shop power tools, their use and adjustment; concrete block laying in small wall sections to learn laying and leveling walls and corners; wood and sheet metal construction and bracing, one or more models built.

2. Cotton Ginners' Workshop. For Ginners and Gin Managers. 2 weeks. The course will include both classroom instruction and laboratory work. The classroom work will be theory and application of machinery operation to fiber quality preservation. The laboratory work will actually involve making adjustments on gin machinery to get desired results, plus field trips to local gins, compresses, and the spinning mill at Post.

3. Gin Managers' Workshop. For Gin Managers and Owners. 1 week. Machinery selection, plant arrangement, quality preservation, materials handling, power selection and distribution are included. Both classroom and laboratory work, including field trips to local gins and compresses to study certain problems as they relate to cotton gin management.

4. Irrigation Workshop. For Vocational Agriculture Teachers. 1 week. Instruction in the engineering problems of irrigation. Subjects to be covered are: (1) Planning, (2) Operation, and (3) General Information. Methods of improving field and pump efficiencies.

5. Welding — Arc and Gas. For Vocational Agriculture Teachers. 1 week. Fundamental instruction on machines and equipment, presented by specialists; alternating demonstration and practice. Development to advanced teaching methods; project construction.

Teachers to supplement those in the department will be State and Federal specialists, skilled men from industry, and special consultants.

Biology Teachers Institute

With the goal of increasing the effectiveness of the teaching of biology in high schools. The National Science Foundation, through a grant to the Department of Biology, is sponsoring an institute for teachers of biology from June 1 to July 25. Lectures, demonstrations, and field trips will provide an outstanding educational experience for participants, who may earn 6 semester hours of credit. The director of the institute will be Mr. Earl D. Camp of the Biology Department, to whom inquiries concerning this program should be addressed.

Workshop in Business Education

From June 4 to July 13 a workshop for business teachers will be conducted by Mr. William R. Pasewark, Head, Department of Business Education, and by visiting specialists. The workshop will emphasize shorthand and typewriting. For credit in the workshop, students will enroll in Business Education 531.

Chemistry Teachers Institute

The National Science Foundation, through a grant to the Department of Chemistry, is sponsoring an institute for secondary school chemistry teachers. From June 8 to July 18 a series of lectures and laboratory work will be conducted by leaders in the field of chemistry. The institute will be under the supervision of Mr. Wesley W. Wendlandt of the Department of Chemistry. Six semester hours of graduate credit are allowed.

Clothing and Textiles Short Courses

511-A. Newer Methods of Construction. Cr. 1. June 29-July 3. Conducted by Mrs. Lila Kinchen. Garments will be made by the application of Bishop and other newer techniques. Emphasis on cutting to fit, accuracy, and professional appearance of the garments. Contact department for list of supplies.

511-C. Application of Newer Techniques of Construction. Cr. 1. July 6-10. Conducted by Mrs. Lila Kinchen. Discussion and lab work will be centered on application of the newer construction methods to effective classroom usage.

411-1. Special Problems in Millinery. Cr. 1. July 14-18. Demonstration and construction of hats for various occasions, under the direction of Mrs. Patsy Schneider. Special sections for (1) teachers and home demonstration agents who may be interested in learning to make hats in order to expand their teaching skills, (2) others whose interest is primarily personal. Special fee, $5.

511-F. Special Problems in Personal Development. Cr. 1. July 20-24. Lectures and demonstrations to aid individuals in developing poise through proper grooming, posture, and selection and use of clothing and accessories, directed by Mrs. Bess Rothman. Laboratory work will be divided for three special groups: (1) Those in extension service, with emphasis on areas related to club work for youth and adults, including fashion shows; (2) Those in teaching, with emphasis on methods of instruction for youth and adults, including modeling and fashion shows: (3) Those interested in professional instruction primarily for personal use. Special fee, $5.

531. Advanced Pattern Design. Cr. 3. July 21-Aug. 14. (For those attending the State Homemaking Teachers Conference, the date will extend until Aug. 21.)

Laboratory work will include making a sloper, a basic pattern, and designing and constructing garments.

Cotton Classing Short Course

The Annual Cotton Classing Short Course will be offered from June 1 to June 12, inclusive, if demand is sufficient.

The two-week intensified cotton evaluation short course offered each summer to anyone interested in cotton is offered through the Extension Division by the Textile Engineering Department in conjunction with the Agricultural Marketing Service of the United States Department of Agriculture. Daily grading and stapling instruction is given, as well as a study of laboratory techniques in evaluation of cotton.

It is open to ginners, farmers, merchants, or any others specifically interested in increasing their knowledge of cotton. No college credit is given. Registration limited to approximately 25 persons.

Inquiries should be addressed to Mr. L. E. Parsons, Cotton Classing School, Department of Textile Engineering.

Workshop in Directing School Speech Activities, July 14-31

Speech 4325 will be offered as a workshop during the first half of the second summer term. The first week will be primarily lecture and preparation for activities of the High School Dramatics and Forensics Workshop. The combination of these two workshops provides the high school teacher practical experience in problems and opportunities present in school speech activities. Both active participation in directing and observation of discussion, debate, declamation, dramatics, extemporaneous speaking, and poetry reading are pos-

sible. This workshop is scheduled to permit teachers especially to enroll for Speech 4324, American Theater Tour, Aug. 1-20, description of which appears under Field Trips, Tours.

Dramatics and Forensics (High School) Workshop

A workshop in dramatics and forensics for high school students will be conducted by the Speech Department July 20-Aug. 1. It is open to any high school sophomore or junior, or outstanding freshman of the 1958-1959 school year. Scholarships will be given to any eligible student who places on the all-star cast of the state or any regional one-act play contest or who places on the winning debate team in the state or any regional contest, or who places first in any other state or regional speech contest in 1959.

The program will include study and practice in effective speech, voice, diction, personality, development, role-playing, bodily action, and the development of good speech habits. Students will have opportunity for participation, under skilled supervision, in plays, discussions, debates, and radio programs, according to their interests.

Students interested in dramatics will produce as many plays as can be cast from the group. The theory and practice of make-up, costume, and lighting, as well as acting, will be included.

The problem of the 1959-60 forensics season will be the basis for study and practice of principles involved in effective discussion, public speaking, and debate. Each student will participate in several practice sessions, culminating in a public demonstration at the conclusion of the session.

For further information direct inquiries to the Speech Department, Texas Technological College.

Advanced Education Workshops in Teaching and Administration

The Department of Education will offer two Education Workshops during the first term of the summer session. The student registers for Education 5139 for credit in either. The first, Aviation Education in the Space Age, June 15 - July 3, will carry a three-semester-hour credit. The second workshop, School Business Services, June 22-26, will carry one-semester-hour credit. The Aviation Education Workshop, while primarily for graduate students, will be open to seniors on approval. It is offered in cooperation with the Civil Air Patrol and the United States Air Force. Special emphasis will be placed on instructional materials and units in Air Age geography, science, weather, and safety needed by teachers in both elementary and secondary schools. The workshop staff under the direction of Mr. Carey Southall, Department of Education, will include special resource persons from the cooperating groups. The School Business Services Workshop will be under the direction of Mr. Berlie J. Fallon, Department of Education.

Food Demonstration Workshop

Food and Nutrition 435. Food Demonstration. Cr. 3. June 29-July 14. Undergraduate or graduate. The workshop is designed especially for persons who use demonstrations in their professional activities, such as home economists with utility companies, with commercial food and equipment companies, in television work, in the home demonstration and extension area, and homemaking teachers. Conducted by Mrs. Gladys Holden and visiting professional demonstrators.

Summer Program of German for Children

A summer program of beginning German for children will be conducted by the Department of Foreign Languages, July 17-Aug.14. Classes will meet one hour daily, Monday through Friday. The course is open to any elementary school child who will be in the third or fourth grade during the 1959-1960 school year. Students of other grade levels will be accepted only to the extent that registration does not exceed the maximum available places.

The program will emphasize practice in spoken German with German games, jingles, songs, pictures, and stories forming the basis of oral practice. A fee of $11 will cover the cost of tuition and all materials used in the course.

For information and reservations write or see Mr. Theodor W. Alexander, Department of Foreign Languages, Texas Technological College.

High School Newspaper-Yearbook Workshop

The Department of Journalism and the West Texas High School Press Association jointly sponsor a five-day workshop for high school students and teachers, Aug. 10-14.

Specialists will aid students and teachers with a variety of problems met on scholastic publications. Newspaper participants will work on an experimental newspaper under close supervision. Yearbook editors and business managers will be assisted in the actual planning of their books.

No college credit is offered. For details and reservations, write the Department of Journalism, Texas Technological College.

Home Nursing Short Course

Home Economics Education 513. Instructor Training in Home Care of the Sick. Cr. 1. July 14-18. Those completing the course are entitled to teach Red Cross home nursing classes and to assist in Civil Defense programs in their communities. Those holding certificates which have lapsed may wish to renew them by again enrolling in this course for the necessary refresher work.

Directed by Mrs. Vivian Adams and representatives from the American National Red Cross.

Interior Design Workshop

Applied Arts 111, 331. Interior Design. Cr. 1, 3. June 2-23. Any student may enroll in Applied Arts 111 for one, two, or three weeks, with registration on June 2 for each or all of the weeks.

In addition to lectures, discussion, and field trips, special guest speakers and manufacturers' representatives will be present during each week to bring information concerning the newest features in home architecture (June 3-9), furniture and arrangements (June 10-16), and color and accessories for the home (June 17-23). The workshop, directed by Mrs. Janie Beitler, will be of value to professional decorators, homemakers, teachers, home demonstration agents, and students of home economics.

Eligible college students may enroll in Applied Arts 331 and receive three hours of degree credit by arranging for special problems with the instructor.

Psychology Workshops

5317. Techniques of Counseling. Cr. 3. June 15-26. Intensive study of specific techniques of counseling. The course will be oriented for post-graduate public school counselors and will include contributions from outstanding authorities in the field.

534. Practicum in Testing. Cr. 3. July 20-31. Practical experience in administration, scoring and interpreting the Rorschach Personality Test.

School Lunch Workshop

A one-week workshop, Food and Nutrition 111, for school lunch personnel and others interested in learning of the school lunch program will be held June 15-19, directed by Dean Willa Vaughn Tinsley and visiting staff.

Spanish in the Elementary School

A special three-week course, Spanish 5335, will be offered for elementary school teachers and supervisors who work with Spanish-speaking children or who wish to introduce Spanish language or elements of Spanish culture to English-speaking children. There will be two demonstration classes, one of Spanish-speaking children and one of English-speaking children. Emphasis will be given to methods of presentation and specific techniques of teaching for eliminating pronunciation difficulties of Spanish-speaking children learning English as a second language. There are no prerequisites for students who wish to count the course as part of the composite minor for the Degree of Master of Education. The course will be conducted from June 8 to June 26 by Miss Faye L. Bumpass, former visiting consultant for teaching English as a foreign language in Latin America for the U. S. Department of State. Students may take the course while enrolled in the first term, or they may choose to take it separately. For details and reservations, write to the Department of Foreign Languages, Texas Technological College.

Summer Music School—Band, Chorus, Orchestra (Pre-College)

The College maintains a large summer band, orchestra, and choral program, concurrent with the first summer term. A wide range of courses is offered during this period. A large staff of instructors augments the regular College staff in making these offerings possible.

Guest conductors and instructors include Edwyn Hames, conductor, South Bend Symphony Orchestra; Lara Hoggard, nationally known choral conductor; and other outstanding conductors.

Band. Three or more bands are open to accommodate students at various levels of advancement. Special instructors on all wind instruments offer instruction in technique. Percussion and baton-twirling instruction are available to those interested, and pre-college theory and arranging classes are open to all pre-college students.

Orchestra. College and public school instructors will join forces to conduct the fourth annual summer program in orchestra for string students at elementary, intermediate, and advanced levels.

Chorus. A strong program for high school students and church choir directors is offered in the field of choral music, stressing repertoire, tone production, rhythmic precision, small group lessons in voice, and classes in theory. For further information, write to the Music Department, Texas Technological College.

FIELD TRIPS, TOURS

American Theater Tour

The Speech Department will again offer a credit course in American Theater, which will make possible first-hand observation of representative theaters and productions. It will include attendance at productions of professional resident companies off Broadway like the Margo Jones Theater in Dallas, arena theaters, professional and non-professional summer stock companies, a showboat, regional and historical groups, a Shakespearean company, and several Broadway plays. Other related activities will be included, such as productions at Radio City, theatrical museums, observation of other college and university facilities, and possibly the Stratford, Canada, Shakespeare Festival.

This course, Speech 3311, will be open to undergraduate students only. Dates are Aug. 1-20. Non-credit attendance will be possible only to the extent that credit registrations do not exceed the maximum available places. Travel costs, including registration, transportation, hotel, and theater tickets, but not including meals and incidental expenses, will be about $200 to $250. A deposit of $50 to hold a place should be made by June 1. Reservations may be cancelled and deposit refunded up to July 1. Registration should be completed at the beginning of the second summer term. For further information write to the Speech Department, Texas Technological College.

Field Trip to Mexico City, 1960

A group study course, Spanish 4328 - 4329, is offered in alternate years in Mexico City during the second term of the summer session. The main purpose of the course is to give to students and teachers of Spanish and to those going into foreign service some experience in international living and a better grasp of the language and civilization of Spanish America. OFFERED IN THE SUMMER OF 1960.

Literary Tour of Europe

The English Department offers a summer travel course, English 3311-3312, visiting important literary shrines in Europe. The group will sail from New York on June 10 and return to Montreal Aug. 6. There will be lectures on and readings in European drama and English prose and poetry, with opportunities to see specimens of the drama (including Shakespeare and famous operas) in stage production. English 3311 can be substituted for English 232 and English 3312 can be taken for elective credit. Those who already have credit for 231-232 can count 3311-3312 for 6 hours of elective credit. Three hours of advanced credit may be applied toward an English major or an English teaching major. Students who are interested should immediately see Mrs. Alan Strout, Department of English, in order to receive complete information and make reservations for inclusion in the class.

Mexican Art Tour

The Applied Arts Department will offer a two - semester - hour credit course, Applied Arts 228, in Mexico City and environs during the first five weeks of the summer session, conducted by Mrs. Meda Johnston. This course provides opportunity to study Mexico's contemporary crafts, painting, sculpture and architecture against the background of its cultural past. Total expenses of the trip, including tuition, books, lodging and meals, and transportation to and from Mexico City will be approximately $225. (Personal purchases will be extra.) This will include side trips to San Miguel Allende, Cuerna-

vaca, Tasco, Puebla and Teotihuacan.

In order to hold a reservation, a deposit of $25 should be made by April 1. Reservations may be cancelled and deposits refunded up to May 1. Those interested should contact Mrs. Johnston, Applied Arts Department, for complete information.

Summer Camp Art Classes, Moab, Utah

The Applied Arts Department will provide instruction the first term in art education for teachers, church and other youth leaders through Applied Arts 338, and a study of painting activities through Applied Arts 228 in Moab, Utah, in cooperation with the Moab Fine Arts Center.

Either of these courses may be taken for credit or non-credit by residents of Texas without additional fee, while non-Texas residents will be required to pay the prescribed out-of-state (Texas) fee. Board and room, swimming, horseback riding and recreational activities will be available at the M-4 Ranch at minimum prices or in the community of Moab.

In Applied Arts 338, teachers, scout, church, and youth-group leaders will have an opportunity to experiment with art material which the various groups of children can use in their schools, camps and church situations.

Applied Arts 228 will be organized so that either the beginner or the experienced painter will benefit from direct experience with paints as well as have an opportunity to acquire an appreciation for water color and painting.

Both groups will participate in field trips that contribute to the students' art experience and knowledge.

Contact Mr. Arne Randall, Applied Arts Department, Texas Technological College, for more specific details.

Travel Course to Europe, 1960

A travel course in Europe (History 3314, 3315), under direction of Mr. W. M. Pearce, is planned for the summer of 1960. For information relative to credit, costs, departure dates, and itinerary, write or see Head, Department of History, Texas Technological College.

OUTLINE OF COURSES

Explanation of Course Numbers. The numbers used for designating courses are uniform in all schools of the College. 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 3 semester hours. Courses numbered in the "0" series (031, 032, and 051) are deficiency courses and hours credited for these courses will be added to the normal degree requirement. See the current General Information Bulletin for further explanation.

A course which extends over two semesters carries a course number joined by a hyphen. Those courses joined by a hyphen must be taken as a unit in order to receive credit. Each department has the responsibility for determining whether, in exceptional cases, a student may receive credit for part of the sequence.

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 appropriate school bulletin for course descriptions and prerequisites.

School of Agriculture

The summer session for the School of Agriculture will include undergraduate courses in agricultural economics, agricultural education, agricultural engineering, agronomy, animal husbandry, dairy industry, entomology, horticulture, and veterinary science.

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, agricultural engineering, agronomy, animal husbandry, dairy industry, and horticulture are provided for those students desiring to earn a Master of Science Degree.

Agricultural Economics

First Term

J. Wayland Bennett, Head

For Undergraduates

235. **FUNDAMENTALS OF AGRICULTURAL ECONOMICS. Cr. 3. Mr. Rogers.**

RURAL SOCIOLOGY

For Undergraduates

331. **RURAL SOCIOLOGY. Cr. 3. Mr. Rogers.**

For Undergraduates and Graduates

431. **LIVESTOCK MARKETING. Cr. 3. Mr. Bennett.**

For Graduates

533. **MARKETING PROBLEMS SEMINAR. Cr. 3. Mr. Bennett.**

631-632. **THESIS. Cr. 6. Staff.**

Second Term

Ray V. Billingsley, Acting Head

For Undergraduates and Graduates

435. **AGRICULTURAL POLICIES AND ORGANIZATIONS. Cr. 3. Mr. Billingsley.**

For Graduates

534. **RESEARCH IN AGRICULTURAL ECONOMICS. Cr. 3. Mr. Thomas.**

631-632. **THESIS. Cr. 6. Mr. Thomas.**

Agricultural Education

Ray L. Chappelle, Head

First Term

For Undergraduates and Graduates

426. **ADVANCED METHODS. Cr. 2. Mr. Hargrave.**

For Graduates

511. **PROBLEMS. Cr. 1. Mr. Leach.**
522. **ADVANCED METHODS. Cr. 2. Mr.** Chappelle.
523. **ADVANCED METHODS. Cr. 2. Mr.** Leach.
531. **INVESTIGATIONS IN THE FIELD OF AGRICULTURAL EDUCATION. Cr. 3.** Mr. Leach.
631-632. **THESIS. Cr. 6. Mr. Chappelle.**

Second Term

For Graduates

511. **PROBLEMS. Cr. 1. Mr. Chappelle.**
531. **INVESTIGATIONS IN THE FIELD OF AGRICULTURAL EDUCATION. Cr. 3.** Mr. Leach and Mr. Hargrave.
631-632. **THESIS. Cr. 6. Mr. Chappelle.**

Agricultural Engineering

First Term

William F. Schwiesow, Acting Head

For Undergraduates

335. **IRRIGATION PRINCIPLES. Cr. 3.** 6 lec. hrs., 6 lab hrs. Mr. Schwiesow.

For Undergraduates and Graduates

435. **FARM MECHANICS PROBLEMS. Cr.** 3. Mr. Schwiesow.

Second Term

Ira L. Williams, Head

For Undergraduates

221. **FARM SHOP METALWORK. Cr. 2.** 3 lec. hrs., 9 lab. hrs. Mr. Williams.
222. **SURVEYING AND MAPPING. Cr. 2.** 3 lec. hrs., 9 lab. hrs. Mr. Williams.

For Undergraduates and Graduates

435. **FARM MECHANICS PROBLEMS. Cr.** 3. Mr. Williams.

Agronomy

A. W. Young, Head

First Term

For Undergraduates

341. **PRINCIPLES OF GENETICS. Cr. 4.** 7½ lec. hrs., 6 lab. hrs. Mr. Ayers.

For Undergraduates and Graduates

422. **DRY FARM SOIL MANAGEMENT.** Cr. 2. 6 lec. hrs. Mr. Young.

For Graduates

511. **AGRONOMY SEMINAR. Cr. 1. Mr.** Ayers.
534. **AGRONOMY RESEARCH. Cr. 3. Mr.** Ayers.
535. **RESEARCH METHODS. Cr. 3. Mr.** Young.
631. **THESIS. Cr. 3. Mr. Ayers.**
632. **THESIS. Cr. 3. Mr. Young.**

Second Term

For Graduates

534. **AGRONOMY RESEARCH. Cr. 3. Mr.** Ayers.
631. **THESIS. Cr. 3. Mr. Ayers.**
632. **THESIS. Cr. 3. Mr. Young.**

Animal Husbandry

K. L. Neeley, Acting Head

First Term

ANIMAL HUSBANDRY

For Undergraduates and Graduates

427. **SWINE PRODUCTION. Cr. 2. Mr.** Anderson.
431. **BEEF CATTLE PRODUCTION. Cr. 3.** Mr. Anderson.
433. **SHEEP PRODUCTION. Cr. 3. Mr.** O'Brien.

For Graduates

533. **CURRENT INVESTIGATIONS IN ANIMAL HUSBANDRY. Cr. 3. Staff.**
631, 632. **THESIS. Cr. 3 each. Staff.**

Second Term

ANIMAL HUSBANDRY

For Undergraduates

331. **ANIMAL NUTRITION AND PRINCIPLES OF FEEDING. Cr. 3. Mr.** Neeley.

For Undergraduates and Graduates

432. **ANIMAL BREEDING. Cr. 3. Staff.**
435. **DAIRY CATTLE PRODUCTION. Cr. 3.** Mr. Neeley.

For Graduates

533. **CURRENT INVESTIGATIONS IN ANIMAL HUSBANDRY. Cr. 3. Staff.**
631, 632. **THESIS. Cr. 3 each. Staff.**

VETERINARY SCIENCE

For Undergraduates

334. **ANIMAL SANITATION AND DISEASE CONTROL. Cr. 3. Mr. Harbaugh.**

Dairy Industry

J. J. Willingham, Head

First Term

For Undergraduates

432. **DAIRY INDUSTRY PROBLEMS. Cr.** 3. Mr. Willingham.

For Graduates

531. DAIRY INDUSTRY RESEARCH. Cr. 3. Mr. Willingham.

631-632. THESIS. Cr. 6. Mr. Willingham.

Second Term

For Undergraduates

432. DAIRY INDUSTRY PROBLEMS. Cr. 3. Mr. Willingham.

For Graduates

535. DAIRY BACTERIOLOGY RESEARCH. Cr. 3. Mr. Willingham.

631-632. THESIS. Cr. 6. Mr. Willingham.

Horticulture and Park Management

E. J. Urbanovsky, Head

First Term

ENTOMOLOGY

For Undergraduates and Graduates

431. AGRICULTURAL COMPOUNDS. Cr. 3. 7½ lec. hrs. Mr. Ashdown.

HORTICULTURE

For Undergraduates and Graduates

425. HORTICULTURE PROBLEMS. Cr. 2. Mr. Rucker.

430. HORTICULTURE PROBLEMS. Cr. 3. Mr. Rucker.

School of Arts and Sciences

The course offerings of the departments within the School of Arts and Sciences have been selected with a twofold 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. Such work is particularly appropriate for teachers in service. Course offerings are designed at all levels to prepare teachers for the elementary or the secondary schools. Those interested in administrative, supervisory, or counseling work will find an ample selection of courses.

Biology

J. C. Cross, Head

First Term

BACTERIOLOGY

For Undergraduates

231. BACTERIOLOGY. Cr. 3. 6 lec. hrs. 9 lab. hrs. Mr. Sealey.

BIOLOGY

For Undergraduates

134. ZOOLOGY. Cr. 3. 6 lec. hrs. 9 lab. hrs. Miss Bodemann.

For Undergraduates and Graduates

332. TEACHING OF BIOLOGY. Cr. 3. 9 lec. hrs. Mr. Cross.

ZOOLOGY

For Undergraduates

231 - 232. COMPARATIVE VERTEBRATE ZOOLOGY. Cr. 6. 12 lec. hrs. 18 lab. hrs. Mr. Landwer and Mr. Cross.

For Undergraduates and Graduates

331. HISTOLOGY. Cr. 3. 6 lec. hrs. 9 lab. hrs. Mr. Landwer.

For Graduates

531. PROBLEMS IN ZOOLOGY. Cr. 3. 18 lab. hrs. Mr. Cross.

Second Term

BIOLOGY

For Undergraduates

133. BOTANY. Cr. 3. 6 lec. hrs. 9 lab. hrs. Mr. Camp and Mr. Cumbie.

ENTOMOLOGY

For Undergraduates and Graduates

334. INSECT TAXONOMY. Cr. 3. 3 lec. hrs. 12 lab. hrs. Mr. Strandtmann.

ZOOLOGY

For Undergraduates and Graduates

437. FIELD ZOOLOGY. Cr. 3. 6 lec. hrs. 9 lab. hrs. Mr. Strandtmann.

For Graduates

535. FIELD ZOOLOGY. Cr. 3. 18 lab. hrs Mr. Strandtmann.

Chemistry and Chemical Engineering

Joe Dennis, Head

First Term

CHEMISTRY

For Undergraduates

141. **GENERAL CHEMISTRY.** Cr. 4. 9 lec. hrs. 9 lab. hrs. Mr. Adamcik, Mr. Slagle, Miss Stuart.

For Undergraduates and Graduates (Minors only)

331. **QUANTITATIVE ANALYSIS.** Cr. 3. 6 lec. hrs. 18 lab. hrs. Staff.

341. **ORGANIC CHEMISTRY.** Cr. 4. 9 lec. hrs. 9 lab hrs. Mr. Estok.

353. **ORGANIC CHEMISTRY.** Cr. 5 9 lec. hrs. 18 lab. hrs. Mr. Goodwin.

Second Term

CHEMISTRY

For Undergraduates

142. **GENERAL CHEMISTRY.** Cr. 4. 9 lec. hrs. 9 lab. hrs. Mr. Lee, Mr. McPherson.

332. **QUANTITATIVE ANALYSIS.** Cr. 3. 6 lec. hrs. 18 lab. hrs. Mr. Rekers.

354. **ORGANIC CHEMISTRY.** Cr. 5. 9 lec. hrs. 18 lab. hrs. Mr. Dennis.

Education and Philosophy

Morris S. Wallace, Head

First Term

EDUCATION

For Undergraduates

130. **INTRODUCTION TO EDUCATION.** Cr. 3. Mr. Gammill.

232. **EDUCATIONAL PSYCHOLOGY.** Cr. 3. Mr. Cooper.

432. **STUDENT OBSERVATION AND TEACHING IN THE SECONDARY SCHOOL.** Cr. 3. Mrs. Corhn.

434. **ADVANCED OBSERVATION AND TEACHING IN THE SECONDARY SCHOOL.** Cr. 3. Mrs. Corhn.

For Undergraduates and Graduates

330. **PRINCIPLES OF SECONDARY EDUCATION.** Cr. 3. Mr. Garlin.

333. **ELEMENTARY CURRICULUM DEVELOPMENT.** Cr. 3. Mrs. Wheeler.

334. **CURRICULUM DEVELOPMENT IN SECONDARY EDUCATION.** Cr. 3. Mr. Jackson.

335. **ELEMENTARY EDUCATION METHODS.** Cr. 3. Mr. Mecham, Miss Evans.

336. **SECONDARY EDUCATION METHODS.** Cr. 3. Mr. Southall.

4315. **AUDIO-VISUAL EDUCATION.** Cr. 3. Mr. Davidson.

4326. **READING DEVELOPMENT IN THE ELEMENTARY SCHOOL.** Cr. 3. Mr. Livingston.

For Graduates

5139. **ADVANCED EDUCATION WORKSHOPS IN TEACHING AND ADMINISTRATION.** Cr. 1-6. Mr. Southall, Mr. Fallon.

533. **PUBLIC SCHOOL ADMINISTRATION.** Cr. 3. Mr. Fallon.

537. **SECONDARY SCHOOL ADMINISTRATION.** Cr. 3. Staff.

5317. **THE JUNIOR HIGH SCHOOL.** Cr. 3. Staff.

5321. **INDIVIDUAL STUDY IN EDUCATION.** Cr. 3. Staff.

5341. **DEVELOPING ARITHMETIC PROGRAMS IN ELEMENTARY EDUCATION.** Cr. 3. Mrs. Wheeler.

5342. **DEVELOPING READING PROGRAMS IN ELEMENTARY EDUCATION.** Cr. 3. Mr. Livingston.

5346. **FUNDAMENTALS OF CURRICULUM DEVELOPMENT.** Cr. 3. Mr. Mecham.

5351. **GENERAL EDUCATION SEMINAR.** Cr. 3. Mr. Garlin.

5369. **SCHOOL PUBLIC RELATIONS.** Cr. 3. Mr. Wallace.

5371. **SUPERVISION.** Cr. 3. Miss Evans.

631-632. **MASTER'S THESIS.** Cr. 6. Staff.

731-732. **RESEARCH.** Cr. 6. Staff.

831-832. **DOCTOR'S DISSERTATION.** Cr. 6. Staff.

PHILOSOPHY

230. **INTRODUCTION TO PHILSOSPHY.** Cr. 3. Mr. Little.

5335. **STRUCTURE AND DYNAMICS OF PHILOSOPHICAL THOUGHT.** Cr. 3. Mr. Little.

Second Term

EDUCATION

For Undergraduates

130. **INTRODUCTION TO EDUCATION.** Cr. 3. Mr. Gammill.

232. **EDUCATIONAL PSYCHOLOGY.** Cr. 3. Mr. Cooper, Mr. Gammill.

For Undergraduates and Graduates

330. **PRINCIPLES OF SECONDARY EDUCATION.** Cr. 3. Mr. Southall.

333. **ELEMENTARY CURRICULUM DEVELOPMENT.** Cr. 3. Mrs. Wheeler.

334. **CURRICULUM DEVELOPMENT IN THE SECONDARY SCHOOL.** Cr. 3. Mr. Southall.

335. **ELEMENTARY EDUCATION METHODS.** Cr. 3. Mr. Mecham, Miss Evans.

336. **SECONDARY EDUCATION METHODS.** Cr. 3. Mr. Southall.

4315. **AUDIO-VISUAL EDUCATION.** Cr. 3. Mr. Davidson.

4326. **READING DEVELOPMENT IN THE ELEMENTARY SCHOOL.** Cr. 3. Mr. Livingston.

4331. **FOUNDATIONS OF EDUCATIONAL SOCIOLOGY.** Cr. 3. Mr. Cooper.

For Graduates

532. **PHILOSOPHY OF EDUCATION.** Cr. 3. Mr. Jackson.

5318. **SELECTION AND EVALUATION OF AUDIO-VISUAL MATERIALS.** Cr. 3. Mr. Davidson.

5331. **HUMAN DEVELOPMENT IN EDUCATION.** Cr. 3. Mr. Mecham.

5344. **DEVELOPMENT OF LANGUAGE ARTS PROGRAM IN ELEMENTARY EDUCATION.** Cr. 3. Mrs. Wheeler.

5345. **DEVELOPMENT SOCIAL STUDIES PROGRAM IN ELEMENTARY EDUCATION.** Cr. 3. Miss Evans.

5373. **EDUCATIONAL EVALUATION.** Cr. 3. Mr. Fallon.

PHILOSOPHY

230. **INTRODUCTION TO PHILOSOPHY.** Cr. 3. Mr. Little.

432. **PHILOSOPHY OF VALUE.** Cr. 3. Mr. Little.

English

First Term

Truman W. Camp, Head

For Undergraduates

131. **COLLEGE RHETORIC.** Cr. 3. Mrs. Carter, Miss Miles.

132. **COLLEGE RHETORIC.** Cr. 3. Mr. Kinnamon, Mrs. Russell.

231. **MASTERPIECES OF LITERATURE.** Cr. 3. Mr. Camp, Mr. Lambert, Mr. McCullen.

232. **MASTERPIECES OF LITERATURE.** Cr. 3. Mr. Kinnamon, Mr. Murphy.

233. **TECHNICAL WRITING FOR ENGINEERS.** Cr. 3. Miss Miles.

333. **MODERN EUROPEAN DRAMA.** Cr. 3. Mr. Murphy.

3311-3312. **LITERARY TOUR OF EUROPE: A Travel Course.** Cr. 6. Mrs. Strout.

For Undergraduates and Graduates

434. **MILTON AND HIS AGE.** Cr. 3. Mr. McCullen.

439. **AMERICAN ENGLISH.** Cr. 3. Mr. Lambert.

4312. **AGE OF JOHNSON.** Cr. 3. Mr. Camp.

For Graduates

530. **THE AGE OF CHAUCER.** Cr. 3. Mr. Gunn.

5335. **PRINCIPLES OF LANGUAGE.** Cr. 3. Mr. Gunn.

631-632. **THESIS.** Cr. 6. Staff.

731. **RESEARCH.** Cr. 3. Staff.

831-832. **DOCTOR'S DISSERTATION.** Cr. 6. Staff.

Second Term

K. A. Nall, Acting Head

For Undergraduates

131. **COLLEGE RHETORIC.** Cr. 3. Miss Carlock, Mr. Nall.

132. **COLLEGE RHETORIC.** Cr. 3. Mr. Guilds, Mrs. Wellborn.

231. **MASTERPIECES OF LITERATURE.** Cr. 3. Staff.

232. **MASTERPIECES OF LITERATURE.** Cr. 3. Miss Carlock, Mr. Gillis.

233. **TECHNICAL WRITING FOR ENGINEERS.** Cr. 3. Miss Green.

For Undergraduates and Graduates

4323. **AMERICAN LITERATURE AND ITS BACKGROUNDS.** Cr. 3. Mr. Nall.

4325. **AMERICAN NOVEL TO 1900.** Cr. 3. Mr. Guilds.

4336. **THE TEACHING OF ENGLISH IN THE SECONDARY SCHOOLS.** Cr. 3. Miss Green.

For Graduates

5323. **LITERATURE OF THE SOUTHWEST.** Cr. 3. Mr. Gillis.

631-632. **THESIS.** Cr. 6. Staff.

731. **RESEARCH.** Cr. 3. Staff.

831-832. **DOCTOR'S DISSERTATION.** Cr. 6. Staff.

Foreign Languages

First Term

John C. Dowling, Head

For Undergraduates

FRENCH

131. **A BEGINNING COURSE IN FRENCH.** Cr. 3. Mr. Dowling.

GERMAN

131. **A BEGINNING COURSE IN GERMAN.** Cr. 3. Mr. Alexander.

233. **SCIENTIFIC GERMAN.*** Cr. 3. Mr. Alexander.

SPANISH

131. **A BEGINNING COURSE IN SPANISH.** Cr. 3. Mrs. Tucker.

231. **A SECOND COURSE IN SPANISH.** Cr. 3. Mrs. Tucker.

For Undergraduates and Graduates

4318. **READINGS IN CONTEMPORARY SPANISH LITERATURE (Drama).** Cr. 3. Mr. Dowling.

For Graduates

5335. **SPANISH IN THE ELEMENTARY SCHOOL.** Cr. 3. Miss Bumpass.

5312. **STUDIES IN SPANISH AND SPANISH AMERICAN LITERATURE.** Cr. 3. Staff.

631-632. **MASTER'S THESIS.** Cr. 6. Staff.

Second Term

A. B. Strehli, Acting Head

For Undergraduates

FRENCH

132. **A BEGINNING COURSE IN FRENCH.** Cr. 3. Mr. Hamilton.

*Students who prefer German 231, the literary course, should register for 233. They will use different materials.

GERMAN

132. **A BEGINNING COURSE IN GERMAN.** Cr. 3. Miss Boney.

234. **SCIENTIFIC GERMAN.** Cr. 3. Miss Boney.

SPANISH

132. **A BEGINNING COURSE IN SPANISH.** Cr. 3. Mr. Strehli.

232. **A SECOND COURSE IN SPANISH.** Cr. 3. Mr. Strehli.

For Undergraduates and Graduates

METHODS

4311. **TEACHERS' COURSE IN METHODS OF TEACHING FOREIGN LANGUAGES.** Cr. 3. Mr. Hamilton.

For Graduates

SPANISH

5313. **STUDIES IN SPANISH AND SPANISH AMERICAN LITERATURE.** Cr. 3. Staff.

631-632. **MASTER'S THESIS.** Cr. 6. Staff.

Geology

F. Alton Wade, Head

First Term

For Undergraduates

143. **PHYSICAL GEOLOGY.** Cr. 4. 9 lec. hrs. 9 lab. hrs. Mr. Wood.

143. **PHYSICAL GEOLOGY.** Cr. 4. 8 lec. hrs. 10 lab. hrs. Same course as above but given at the field camp in Moab, Utah. (Write to Head of Department for particulars.) Mr. Wade and Mr. Mattox.

For Undergraduates and Graduates

363. **FIELD GEOLOGY.** Cr. 6. Given in the field. (Write to Head of Department for particulars.) Mr. Brand, Mr. Arper, Mr. Harris.

For Graduates

563. **ADVANCED FIELD GEOLOGY.** Cr. 6. Mr. Mattox.

631-632. **MASTER'S THESIS.** Cr. 6. Staff.

Second Term

For Undergraduates

144. **HISTORICAL GEOLOGY.** Cr. 4. 9 lec. hrs. 9 lab. hrs. Mr. Wood.

For Undergraduates and Graduates

363. **FIELD GEOLOGY.** Cr. 6. Given in the field. (Write to Head of Department for particulars.) Mr. Brand, Mr. Arper.

For Graduates

631-632. **MASTER'S THESIS.** Cr. 6. Staff.

Government

J. William Davis, Head

First Term

For Undergraduates

233. **AMERICAN GOVERNMENT, ORGANIZATION.** Cr. 3. Mr. Myres, Mr. Mack, Mr. Fuller, Mr. Oden, Mr. Johnson, Mr. Jackson.

234. **AMERICAN GOVERNMENT, FUNCTIONS.** Cr. 3. Mr. Mack, Mr. Myres, Mr. Johnson.

For Undergraduates and Graduates

335. **INTERNATIONAL POLITICS.** Cr. 3. Mr. Fuller

338. **PUBLIC ADMINISTRATION, PROCEDURE.** Cr. 3. Mr. Jackson.

334. **POLITICAL PARTIES.** Cr. 3. Mr. Oden.

For Graduates

5335. **POLITICAL IDEOLOGIES AND INSTITUTIONS.** Cr. 3. Mr. Davis.

Second Term

For Undergraduates

233. **AMERICAN GOVERNMENT, ORGANIZATION.** Cr. 3. Mr. Fuller, Mr. Johnson, Mr. Jackson, Mr. Davis.

234. **AMERICAN GOVERNMENT, FUNCTIONS.** Cr. 3. Mr. Jackson, Mr. Oden, Mr. Johnson, Mr. Mack.

For Undergraduates and Graduates

3312. **BRITISH GOVERNMENT.** Cr. 3. Mr. Kennedy.

435. **INTERNATIONAL ORGANIZATION.** Cr. 3. Mr. Mack.

336. **UNITED STATES FOREIGN POLICY.** Cr. 3. Mr. Fuller.

For Graduates

531. **READING AND RESEARCH.** Cr. 3. Mr. Davis.

Health, Physical Education, and Recreation—Men

Ramon W. Kireilis, Head

First Term

For Undergraduates

Men and Women

012. **BEGINNING SWIMMING.** Cr. 1. Mr. Philbrick.

013. **ADVANCED SWIMMING.** Cr. 1. Mr. Philbrick.

017. **GOLF.** Cr. 1. Mr. Jennings.

0127. **TENNIS.** Cr. 1. Mr. Philbrick.

For Undergraduates and Graduates

Men

4322. **ORGANIZATION AND ADMINISTRATION OF INTERSCHOLASTIC AND INTERCOLLEGIATE ATHLETIC PROGRAMS.** Cr. 3. Mr. Jennings.

Men and Women

4321. **METHODS AND TECHNIQUES OF DRIVER INSTRUCTION.** Cr. 3. Mr. Cobb.

4326. **SAFETY EDUCATION.** Cr. 3. Mr. Cobb.

531. **ADMINISTRATION OF PHYSICAL EDUCATION.** Cr. 3. Mr. Kirellis.

532. **SUPERVISION OF PHYSICAL EDUCATION.** Cr. 3. Mr. Kirellis.

Second Term

For Undergraduates

Men

0111. **BOWLING.** Cr. 1. Mr. Philbrick. (Bowling alley fee, $10.)

0127. **TENNIS.** Cr. 1. Mr. Philbrick.

Men and Women

012. **BEGINNING SWIMMING.** Cr. 1. Mr. McNally.

013. **ADVANCED SWIMMING.** Cr. 1. Mr. McNally.

For Undergraduates and Graduates

Men and Women

4324. **ORGANIZATION AND ADMINISTRATION OF INTRAMURAL SPORTS.** Cr. 3. Mr. Philbrick.

Health, Physical Education and Recreation—Women

First Term

Dorothy Hoyle, Acting Head

For Undergraduates

Women

2115. **BADMINTON.** Cr. 1. Miss Hoyle.

Men and Women

0111. **BOWLING.** Cr. 1. Miss Hoyle. (Bowling alley fee, $10.)

230. **HEALTH EDUCATION IN THE ELEMENTARY AND SECONDARY SCHOOLS.** Cr. 3. Miss Hoyle.

Second Term

Sue Rainey, Acting Head

For Undergraduates

Women

212. **TENNIS.** Cr. 1. Miss Rainey.

Men and Women

2117. **ARCHERY.** Cr. 1. Miss Rainey.

233. **PHYSICAL EDUCATION FOR THE ELEMENTARY SCHOOL.** Cr. 3. Miss Rainey.

History, Anthropology, and Sociology*

W. M. Pearce, Head

First Term

HISTORY

For Undergraduates

231. **HISTORY OF THE UNITED STATES TO 1865.** Cr. 3. Mr. Kinchen, Mr. Eaves, Mr. Pearce, Mr. Jones.

232. **HISTORY OF THE UNITED STATES SINCE 1865.** Cr. 3. Mr. Pearce.

235. **SURVEY OF TEXAS HISTORY.** Cr. 3. Mr. Vigness.

3321. **THE AMERICAN HERITAGE, TO 1865.** Cr. 3. Mr. Graves, Mr. De La Rue.

3322. **THE AMERICAN HERITAGE, SINCE 1865.** Cr. 3. Mr. Pearce.

For Undergraduates and Graduates

436. **SOCIAL AND CULTURAL HISTORY OF THE UNITED STATES.** Cr. 3. Mr. Graves.

4323. **SPANISH COLONIAL NORTH AMERICA.** Cr. 3. Mr. Vigness.

4331. **HISTORY OF RUSSIA.** Cr. 3. Mr. Eaves.

4352. **THE CANADIAN DOMINION.** Cr. 3. Mr. Kinchen.

For Graduates

533. **SEMINAR IN BRITISH HISTORY.** Cr. 3. Mr. Kinchen.

631. **MASTER'S THESIS.** Cr. 3. Staff.

731. **DOCTORAL RESEARCH.** Cr. 3. Staff.

831. **DOCTORAL DISSERTATION.** Cr. 3. Staff.

ANTHROPOLOGY

For Undergraduates

232. **CULTURAL ANTHROPOLOGY.** Cr. 3. Mr. Kelley.

For Graduates

5335. **ORIGINS OF SOCIAL CUSTOMS AND INSTITUTIONS.** Cr. 3. Mr. Kelley.

SOCIOLOGY

For Undergraduates

230. **INTRODUCTION TO SOCIOLOGY.** Cr. 3. Mr. Steglich.

235. **MARRIAGE.** Cr. 3. Mr. Koos.

For Undergraduates and Graduates

433. **CRIMINOLOGY.** Cr. 3. Mr. Koos.

Second Term

HISTORY

For Undergraduates

231. **HISTORY OF THE UNITED STATES TO 1865.** Cr. 3. Mr. Holden.

*Effective Sept. 1, the Department of Sociology will become a separate department.

232. **HISTORY OF THE UNITED STATES SINCE 1865.** Cr. 3. Mr. Pearce, Mr. Blaisdell.

235. **SURVEY OF TEXAS HISTORY.** Cr. 3. Mr. McKay.

3322. **THE AMERICAN HERITAGE, SINCE 1865.** Cr. 3. Mr. Dillon, Mr. Wallace.

For Undergraduates and Graduates

4334. **THE FRENCH REVOLUTION AND NAPOLEON.** Cr. 3. Mr. Blaisdell.

4343. **RECENT TEXAS HISTORY.** Cr. 3. Mr. McKay.

For Graduates

530. **SEMINAR IN SOUTHWESTERN HISTORY.** Cr. 3. Mr. Holden.

534. **HISTORICAL METHODS AND HISTORIOGRAPHY.** Cr. 3. Mr. Wallace.

632. **MASTER'S THESIS.** Cr. 3. Staff.

732. **DOCTORAL RESEARCH.** Cr. 3 Staff.

832. **DOCTORAL DISSERTATION.** Cr. 3. Staff.

SOCIOLOGY

For Undergraduates

230. **INTRODUCTION TO SOCIOLOGY.** Cr. 3. Mr. Steglich.

233. **CURRENT SOCIAL PROBLEMS.** Cr. 3. Mr. Steglich.

Journalism

W. E. Garets, Head

First Term

For Undergraduates

233. **NEWSPAPER FEATURE WRITING.** Cr. 3. Mr. Garets.

For Graduates

411. **SPECIAL PROBLEMS IN JOURNALISM.** Cr. 1-3. Mr. Garets.

432. **JOURNALISM FOR THE HIGH SCHOOL TEACHER.** Cr. 3. Mr. Garets.

Mathematics and Astronomy

Emmett Hazlewood, Head

First Term

For Undergraduates

052. **COLLEGE ALGEBRA.** Cr. 5. Staff. (For engineering students and science majors whose test scores indicate a deficiency in high school algebra.)

130. **ALGEBRA.** Cr. 3. Mr. Smith, Miss Hayes. (For students planning to take not more than 6 credit-hours of college mathematics.)

131. **TRIGONOMETRY.** Cr. 3. Mrs. Rowland, Mrs. Sullenberger.

132. **ANALYTIC GEOMETRY.** Cr. 3. Mrs. Rowland, Mrs. Harris.

133. **COLLEGE ALGEBRA.** Cr. 3. Mrs. Rowland, Mrs. Sullenberger. (Required of engineering, science and mathematics majors.)

135. **FUNDAMENTAL MATHEMATICS.** Cr. 3. Mr. Hazlewood.

138. **MATHEMATICS OF FINANCE.** Cr. 3. Mr. Smith.

231. **DIFFERENTIAL CALCULUS.** Cr. 3. Mr. Fuller, Mr. Caskey, Miss Hayes.

For Undergraduates and Graduates

331. **APPLICATIONS OF CALCULUS.** Cr. 3. Mr. Wenjen, Mr. Caskey.

332. **ELEMENTARY DIFFERENTIAL EQUATIONS.** Cr. 3. Mr. Riggs, Mr. Gilmore.

431. **TEACHING OF SECONDARY MATHEMATICS.** Cr. 3. Mr. Heineman.

434. **ADVANCED CALCULUS.** Cr. 3. Mr. Hazlewood.

4314. **ADVANCED STATISTICS.** Cr. 3. Mr. Riggs.

For Graduates

531. **ADVANCED PROBLEMS.** Cr. 3. Mr. Fuller.

5312. **FUNCTIONS OF A COMPLEX VARIABLE.** Cr. 3. Mr. Wenjen.

631-632. **MASTER'S THESIS.** Cr. 6. Staff.

Second Term

For Undergraduates

130. **ALGEBRA.** Cr. 3. Mr. Morton. (For students planning to take not more than 6 credit-hours of college mathematics.)

131. **TRIGONOMETRY.** Cr. 3. Mrs. Strandtmann, Mrs. Carpenter.

132. **ANALYTIC GEOMETRY.** Cr. 3. Mrs. Bailey, Mr. Shurbet.

133. **COLLEGE ALGEBRA.** Cr. 3. Mrs. Bailey, Mrs. Carpenter. (Required of engineering, science and mathematics majors.)

138. **MATHEMATICS OF FINANCE.** Cr. 3. Miss McGlothlin.

231. **DIFFERENTIAL CALCULUS.** Cr. 3. Mrs. Carpenter, Mr. Shurbet.

232. **INTEGRAL CALCULUS.** Cr. 3. Mrs. Roberts, Mrs. Strandtmann.

238. **ELEMENTARY STATISTICS.** Cr. 3. Miss McGlothlin.

For Undergraduates and Graduates

331. **APPLICATIONS OF CALCULUS.** Cr. 3. Mrs. Roberts.

332. **ELEMENTARY DIFFERENTIAL EQUATIONS.** Cr. 3. Mr. Woodward, Mr. Morton.

333. **ADVANCED ALGEBRA.** Cr. 3. Mr. Woodward.

435. **ADVANCED CALCULUS.** Cr. 3. Mr. Sparks.

5313. **FUNCTIONS OF A COMPLEX VARIABLE.** Cr. 3. Mr. Sparks.

631-632. **MASTER'S THESIS.** Cr. 6. Staff.

Music

Gene Hemmle, Head

First Term

APPLIED MUSIC

For Undergraduates

Private Instruction

115, 116, 215, 216, 315, 316. APPLIED MUSIC. Voice, Piano, Clarinet, Flute, Saxophone, Bassoon, Oboe. Cr. 1 each. ½ lec. hr. 7½ prac. hrs. each. Mr. Kenney, Mr. LaMar, Mr. McCarty.

025, 026, 125, 126. APPLIED MUSIC. Voice, Piano, Clarinet, Flute, Saxophone, Bassoon, Oboe. Cr. 2 each. 1 lec. hr. 15 prac. hrs. each. Staff.

225, 226. APPLIED MUSIC. Voice, Piano, Clarinet, Flute, Saxophone, Bassoon, Oboe. Cr. 2 each. 1 lec. hr. 15 prac. hrs. each. Staff.

235, 236. APPLIED MUSIC. Voice or piano. Cr. 2 each. 1 lec. hr. 21 prac. hrs. each. Staff.

325, 326. APPLIED MUSIC. Voice, Piano, Clarinet, Flute, Saxophone, Bassoon, Oboe. Cr. 2 each. 1 lec. hr. 15 prac. hrs. each. Staff.

345, 346. APPLIED MUSIC. Voice or piano. Cr. 4 each. 1 lec. hr. 21 prac. hrs. each. Staff.

For Undergraduates and Graduates

425, 426. APPLIED MUSIC. Voice, Piano, Clarinet, Flute, Saxophone, Bassoon, Oboe. Cr. 2 each. 15 prac. hrs. each. Staff.

435, 436, 445, 446. APPLIED MUSIC. Voice or piano. Cr. 3, 4 each. 21 prac. hrs. each. Staff.

MUSIC EDUCATION

For Undergraduates

231. FUNDAMENTALS OF MUSIC FOR ELEMENTARY CLASSROOM TEACHER. Cr. 3. Mr. Elliott.

For Graduates

530. SEMINAR IN MUSIC EDUCATION. Cr. 3. Mr. Elliott.

Second Term

APPLIED MUSIC

For Undergraduates

Private Instruction

115, 116, 215, 216, 315, 316. APPLIED MUSIC. Voice, Piano, Clarinet, Flute, Saxophone, Bassoon, Oboe. Cr. 1 each. ½ lec. hr. 7½ prac. hrs. each. Mr. Kenney; Mr. LaMar, Mr. McCarty.

025, 026, 125, 126. APPLIED MUSIC. Voice, Piano, Clarinet, Flute, Saxophone, Bassoon, Oboe. Cr. 2 each. 1 lec. hr. 15 prac. hrs. each. Staff.

225, 226. APPLIED MUSIC. Voice, Piano, Clarinet, Flute, Saxophone, Bassoon, Oboe. Cr. 2 each. 1 lec. hr. 15 prac. hrs. each. Staff.

235, 236. APPLIED MUSIC. Voice or piano. Cr. 3 each. 1 lec. hr. 15 to 21 prac. hrs. each. Staff.

325, 326. APPLIED MUSIC. Voice, Piano, Clarinet, Flute, Saxophone, Bassoon, Oboe. Cr. 2 each. 1 lec. hr. 15 prac. hrs. each. Staff.

345, 346. APPLIED MUSIC. Voice or piano. Cr. 4 each. 1 lec. hr. 21 prac. hrs. each. Staff.

For Undergraduates and Graduates

425, 426. APPLIED MUSIC. Voice, Piano, Clarinet, Flute, Saxophone, Bassoon, Oboe. Cr. 2 each. 15 prac. hrs. each. Staff.

435, 436, 445, 446. APPLIED MUSIC. Voice or piano. Cr. 3, 4 each. 15 to 21 prac. hrs. each. Staff.

MUSIC EDUCATION

For Undergraduates

232. MUSIC FOR CLASSROOM TEACHERS. Cr. 3. Mr. Hemmle.

For Graduates

5335. MUSIC FOR CHILDREN. Cr. 3. Mr. Hemmle.

Physics

H. C. Thomas, Head

First Term

For Undergraduates

031. INTRODUCTORY PHYSICS. Cr. 3. 9 lec. hrs. Mr. Basford.

141. GENERAL PHYSICS. Cr. 4. 9 lec. hrs. 9 lab. hrs. Mr. Phillips.

215. PHYSICAL MEASUREMENTS. Cr. 1. 9 lab. hrs. Mr. Clark.

235. ENGINEERING PHYSICS. Cr. 3. 9 lec. hrs. Mr. Clark.

For Undergraduates and Graduates

337. INTRODUCTION TO ATOMIC PHYSICS. Cr. 3. 9 lec. hrs.

631-632. THESIS. Cr. 6. Staff.

Second Term

For Undergraduates

142. GENERAL PHYSICS. Cr. 4. 9 lec. hrs. 9 lab. hrs. Mr. Schmidt.

216. PHYSICAL MEASUREMENTS. Cr. 1. 9 lab. hrs. Mr. Mires.

233. ENGINEERING PHYSICS. Cr. 3. 9 lec. hrs. Mr. Severance.

For Undergraduates and Graduates

338. INTRODUCTION TO NUCLEAR PHYSICS. Cr. 3. 9 lec. hrs. Mr. Clark.

631-632. THESIS. Cr. 6. Staff.

Psychology

Sylvan J. Kaplan, Head

First Term

For Undergraduates

130. INTRODUCTION TO PSYCHOLOGY. Cr. 3. Mr. Pereboom, Mr. Kuntz,

331. **CHILD PSYCHOLOGY.** Cr. 3. Mr. McCutchan.

333. **STATISTICAL METHODS.** Cr. 3. Mr. Pereboom.

335. **ADOLESCENT PSYCHOLOGY.** Cr. 3. Mr. Dauterman.

For Undergraduates and Graduates

435. **ABNORMAL PSYCHOLOGY.** Cr. 3. Mr. McCutchan.

4319. **NATURE OF INTELLIGENCE.** Cr. 3. Mr. Kaplan.

4329. **PSYCHOLOGY OF EXCEPTIONAL CHILDREN.** Cr. 3. Mrs. Attneave.

For Graduates

532. **PROBLEMS IN PSYCHOLOGY.** Cr. 3. Mr. Kaplan.

539. **OCCUPATIONAL INFORMATION.** Cr. 3. Mr. Dauterman.

5314. **TESTS AND MEASUREMENTS.** Cr. 3. Mrs. Attneave.

5317. **TECHNIQUES OF COUNSELING.** Cr. 3. (June 15-26.) Miss Cobb.

631-632. **MASTER'S THESIS.** Cr. 6. Staff.

731-732. **DOCTORAL RESEARCH.** Cr. 3 each. Staff.

831-832. **DOCTOR'S DISSERTATION.** Cr. 6. Staff.

Second Term

For Undergraduates

130. **INTRODUCTION TO PSYCHOLOGY.** Cr. 3. Mr. Melching.

332. **MENTAL HEALTH.** Cr. 3. Mr. Melching.

335. **ADOLESCENT PSYCHOLOLGY.** Cr. 3. Mr. Barnett.

For Graduates

532. **PROBLEMS IN PSYCHOLOGY.** Cr. 3. Mr. Kaplan.

534. **PRACTICUM AND TESTING.** Cr. 3. (July 20-31.) Staff.

5318. **PRACTICUM IN TECHNIQUES OF COUNSELING.** Cr. 3. Miss Cobb.

631-632. **MASTER'S THESIS.** Cr. 6. Staff.

731-732. **DOCTORAL RESEARCH.** Cr. 3 each. Staff.

831-832. **DOCTOR'S DISSERTATION.** Cr. 6. Staff.

Speech

First Term

P. Merville Larson, Head

For Undergraduates

239. **SPEECH DEVELOPMENT FOR TEACHER COMPETENCE.** Cr. 3. Mr. Larson.

338. **BUSINESS AND PROFESSIONAL SPEAKING.** Cr. 3. Mr. Brennan.

For Undergraduates and Graduates

4318. **SPEECH CORRECTION METHODS.** Cr. 3. Miss Lindell.

4321, 4322. **SUPERVISED CLINICAL PRACTICE IN SPEECH CORRECTION.** Cr. 3 each. Miss Lindell.

For Graduates

531. **STUDIES AND PROBLEMS IN SPEECH.** Cr. 3. Staff.

5335. **BASIC SPEECH FOR ELEMENTARY TEACHERS.** Cr. 3. Mr. Larson.

631, 632. **THESIS.** Cr. 3 each. Staff.

Second Term

P. Merville Larson, Head, July 14-31

Bernard A. Landes, Acting Head, Aug. 1-23

For Undergraduates

233. **VOICE AND DICTION.** Cr. 3. Mr. Landes.

319. **THEATER ACTIVITIES.** Cr. 1. Mr. Schulz.

338. **BUSINESS AND PROFESSIONAL SPEAKING.** Cr. 3. Mr. Landes.

3311. **AMERICAN THEATER TOUR I.** Cr. 3. Aug. 1-20. Mr. Schulz.

For Undergraduates and Graduates

4325. **DIRECTING SCHOOL SPEECH ACTIVITIES.** Cr. 3. July 14-31. Mr. Larson and Mr. Schulz.

For Graduates

531. **STUDIES AND PROBLEMS IN SPEECH.** Cr. 3. Staff.

631, 632. **THESIS.** Cr. 3 each. Staff.

Biblical Literature

For Undergraduates

First Term

211. **ORIGIN OF THE BIBLE.** Cr. 1. Mr. Harris.

213. **THE BOOK OF JAMES.** Cr. 1. Mr. Cobbs.

221. **THE BOOK OF JOHN.** Cr. 2. Mr. Cobbs.

223. **THE BOOK OF ROMANS.** Cr. 2. Mr. Harris.

School of Business Administration

The 1959 summer session makes available courses in all departments in the School of Business Administration. Programs of study are offered for students at all levels from freshman through graduate standing.

The entering freshman may to his advantage begin his degree program during the summer, and the advanced student will find opportunity to accelerate the completion of his degree requirements.

Attention is given to the needs of all graduate students in business administration and in particular to business teachers. The 1959 summer session provides the graduate business teacher a program of courses leading toward either the Master of Business Administration or the Master of Education Degree with a major in business education.

Accounting

Reginald Rushing, Head

First Term

For Undergraduates

244. **ELEMENTARY ACCOUNTING I.** Cr. 4. 7½ lec. hrs. 7½ lab. hrs. Mrs. Eaves.
245. **ELEMENTARY ACCOUNTING II.** Cr. 4. 7½ lec. hrs. 7½ lab. hrs. Mr. Chisholm.
246. **MACHINE ACCOUNTING.** Cr. 4. 7½ lec. hrs. 7½ lab. hrs. Mrs. Eaves.
331. **MANAGERIAL ACCOUNTING.** Cr. 3. Mr. Roberts.
334. **INTERMEDIATE ACCOUNTING I.** Cr. 3. Mr. Norwood.
336. **PRINCIPLES OF COST ACCOUNTING.** Cr. 3. Mr. Norwood.

For Undergraduates and Graduates

434. **ADVANCED ACCOUNTING I.** Cr. 3. Mr. Roberts.
437. **PRINCIPLES OF AUDITING.** Cr. 3. Mr. Chisholm.

For Graduates

533. **CURRENT ACCOUNTING THEORY.** Cr. 3. Mr. Rushing.
631. **THESIS.** Cr. 3. Mr. Rushing.

Second Term

For Undergraduates

244. **ELEMENTARY ACCOUNTING I.** Cr. 4. 7½ lec. hrs. 7½ lab. hrs. Mr. Green.
245. **ELEMENTARY ACCOUNTING II.** Cr. 4. 7½ lec. hrs. 7½ lab. hrs. Mr. Taylor.
322. **PAYROLL ACCOUNTING.** Cr. 2. Mr. Green.
335. **INTERMEDIATE ACCOUNTING II.** Cr. 3. Mr. Norwood.

For Undergraduates and Graduates

430. **INCOME TAX ACCOUNTING.** Cr. 3. Mr. Taylor.
435. **ADVANCED ACCOUNTING II.** Cr. 3. Mr. Rushing.

For Graduates

531. **CONTROLLERSHIP.** Cr. 3. Mr. Norwood.
632. **THESIS.** Cr. 3. Mr. Rushing.

Business Education and Secretarial Administration

William R. Pasewark, Head

First Term

BUSINESS EDUCATION

For Graduates

531. **WORKSHOP FOR BUSINESS TEACHERS.** Cr. 3. Mr. Pasework. (Refer to section on workshops.)

SECRETARIAL ADMINISTRATION

For Undergraduates

321. **CALCULATING MACHINES.** Cr. 2. Mr. Holtmann.
333. **BUSINESS CORRESPONDENCE.** Cr. 3. Mr. Holtmann.

Second Term

For Undergraduates

327. **REPORT WRITING.** Cr. 2. Mrs. Ewing.

Economics and Finance

First Term

Thomas F. Wiesen, Acting Head

ECONOMICS

For Undergraduates

133. **THE DEVELOPMENT OF AMERICAN BUSINESS AND ECONOMIC INSTITUTION I.** Cr. 3. Mr. Sampson.
231. **PRINCIPLES OF ECONOMICS I.** Cr. 3. Mr. Wiesen.
326. **RESEARCH IN ECONOMICS AND BUSINESS.** Cr. 2. Mr. Clover.

For Graduates

531. **ECONOMIC RESEARCH.** Cr. 3. Mr. Clover.

534. **SEMINAR IN CONTEMPORARY ECONOMIC PROBLEMS.** Cr. 3. Mr. Levy.
631. **THESIS.** Cr. 3. Staff.

FINANCE

For Undergraduates

231. **PERSONAL FINANCE.** Cr. 3. Mr. Abel.
331. **CORPORATION FINANCE.** Cr. 3. Mr. Walker.
333. **PRINCIPLES OF MONEY, BANKING, AND CREDIT.** Cr. 3. Mr. Walker.
335. **GENERAL INSURANCE.** Cr. 3. Mr. Abel.

BUSINESS LAW

For Undergraduates

338. **BUSINESS LAW I.** Cr. 3. Mr. Dale.
3313. **OIL AND GAS LAW.** Cr. 3. Mr. Dale.

Second Term

Robert L. Rouse, Head

ECONOMICS

For Undergraduates

134. **THE DEVELOPMENT OF AMERICAN BUSINESS AND ECONOMIC INSTITUTIONS II.** Cr. 3. Mr. Anderson, Mr. Levy.
232. **PRINCIPLES OF ECONOMICS II.** Cr. 3. Mr. Witt.

For Undergraduates and Graduates

437. **CURRENT ECONOMIC PROBLEMS.** Cr. 3. Mr. Anderson .

For Graduates

5335. **HUMAN GEOGRAPHY.** Cr. 3. Mr. Clover.
632. **THESIS.** Cr. 3. Staff.

FINANCE

For Undergraduates

331. **CORPORATION FINANCE.** Cr. 3. Mr. Levy.
334. **CREDITS AND COLLECTIONS.** Cr. 3. Mr. Abel.

For Undergraduates and Graduates

434. **INVESTMENTS.** Cr. 3. Mr. Rouse.

For Graduates

534. **SEMINAR.** Cr. 3. Mr. Rouse.
631. **THESIS.** Cr. 3. Mr. Rouse.

BUSINESS LAW

For Undergraduates

338. **BUSINESS LAW I.** Cr. 3. Mr. Reese.
339. **BUSINESS LAW II.** Cr. 3. Mr. Reese.

Management

First Term

F. L. Mize, Head

For Undergraduates

331. **INDUSTRIAL MANAGEMENT.** Cr. 3. Mr. Mize.

For Undergraduates and Graduates

435. **EMPLOYEE SUPERVISION.** Cr. 3. Mr. Mize.

For Graduates

631. **THESIS.** Cr. 3. Mr. Mize.

Second Term

Wm. G. Cain, Acting Head

For Undergraduates

331. **INDUSTRIAL MANAGEMENT.** Cr. 3. Mr. Cain.
333. **LABOR PROBLEMS.** Cr. 3. Mr. Cain.

For Graduates

632. **THESIS.** Cr. 3. Mr. Cain.

Marketing

John A. Ryan, Head

First Term

For Undergraduates

332. **PRINCIPLES OF MARKETING.** Cr. 3. Mrs. Luchsinger.
334. **PRINCIPLES OF ADVERTISING.** Cr. 3. Mr. Ryan.
339. **PRINCIPLES OF SALESMANSHIP.** Cr. 3. Mrs. Luchsinger.
346. **INTRODUCTION TO BUSINESS STATISTICS.** Cr. 4. 7½ lec. hrs. 7½ lab. hrs. Mr. Golden.

For Undergraduates and Graduates

433. **MARKETING PROBLEMS.** Cr. 3. Mr. Ryan.

Second Term

For Undergraduates

332. **PRINCIPLES OF MARKETING.** Cr. 3. Mr. Ryan.
346. **INTRODUCTION TO BUSINESS STATISTICS.** Cr. 4. 7½ lec. hrs. 7½ lab. hrs. Mr. Golden.

For Undergraduates and Graduates

431. **INDUSTRIAL MARKETING.** Cr. 3. Mr. Ryan.

School of Engineering

The School of Engineering will offer sophomore and upper-level work in architecture, civil, electrical, mechanical, and petroleum engineering, as well as freshman work in engineering drawing provided the demand for such courses is sufficient.

All the work of the freshman year in the School of Engineering will be available if the demand for these courses is sufficient. 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 conditions.

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 the current General Information Bulletin, or write to the Dean of Admissions and 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 1958-1959 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, and thus become a regular sophomore next fall.

Architecture and Allied Arts

Nolan E. Barrick, Head

First Term

ALLIED ARTS

For Undergraduates and Graduates

421. **ART WORKSHOP. Cr. 2.** 18 lab. hrs. Staff.

Second Term

ALLIED ARTS

For Undergraduates and Graduates

421. **ART WORKSHOP. Cr. 2.** 18 lab. hrs. Staff.

For Graduates

5335. **ART IN THE WESTERN WORLD. Cr. 3.** Mrs. Sasser. (Formerly designated as 4351.)

Civil Engineering

First Term

J. H. Murdough, Head

For Undergraduates

231. **PLANE SURVEYING. Cr. 3.** 6 lec. hrs. 9 lab. hrs. Mr. Aldridge.
233. **STATICS. Cr. 3.** 9 lec. hrs. Mr. Le Fevre, Mr. Schnerr, Mr. Whetstone.
330. **STRUCTURES. Cr. 3.** 9 lec. hrs. Mr. Sanger.
332. **KINEMATICS AND KINETICS. Cr. 3.** 9 lec. hrs. Mr. Reed, Mr. Murdough.
333. **STRENGTH OF MATERIALS. Cr. 3.** 9 lec. hrs. Mr. Le Fevre, Mr. Aldridge, Mr. Sanger.
339. **FLUID MECHANICS. Cr. 3.** 9 lec. hrs. Mr. Whetstone.

Second Term

C. G. Decker, Acting Head

For Undergraduates

231. **PLANE SURVEYING. Cr. 3.** 6 lec. hrs. 9 lab. hrs. Mr. Aldridge, Mr. Decker.
232. **ROUTE SURVEYING. Cr. 3.** 6 lec. hrs. 9 lab. hrs. Mr. Schnerr.
233. **STATICS. Cr. 3.** 9 lec. hrs. Mr. Decker.
332. **KINEMATICS AND KINETICS. Cr. 3.** 9 lec. hrs. Mr. Keho, Mr. Sanger.
333. **STRENGTH OF MATERIALS. Cr. 3.** 9 lec. hrs. Mr. Schnerr, Mr. Aldridge, Mr. Sanger.
339. **FLUID MECHANICS. Cr. 3.** 9 lec. hrs. Mr. Whetstone.

Electrical Engineering

First Term

Charles V. Bullen, Head

For Undergraduates

221. **ELECTRICAL ENGINEERING LABORATORY. Cr. 2.** 18 lab. hrs. Mr. Bullen, Mr. Meeks.
231. **PRINCIPLES OF ELECTRICAL ENGINEERING. Cr. 3.** Mr. Bullen, Mr. Meeks.
318. **ELECTRICAL ENGINEERING LABORATORY. Cr. 1.** 9 lab. hrs. Mr. Hartsfield, Staff.
338. **ELEMENTS OF ELECTRICAL ENGINEERING. Cr. 3.** Mr. Hartsfield, Mr. Cardwell, Mr. Johnson.

For Undergraduates and Graduates

312. **ALTERNATING CURRENT CIRCUITS LABORATORY. Cr. 1.** 9 lab. hrs. Mr. Easter, Mr. Grigsby.

321. **STATIC ELECTRIC AND MAGNETIC FIELDS.** Cr. 2. Mr. Houston.
337. **ELECTRONICS.*** Mr. Easter.
332. **ALTERNATING CURRENT CIRCUITS.** Cr. 3. Mr. Easter, Mr. Grigsby.
412. **ENGINEERING SEMINAR.** Cr. 1. 9 lab. hrs. Mr. Houston.
4312. **ALTERNATING CURRENT MACHINES.** Cr. 3. Mr. Price.
4112. **ALTERNATING CURRENT MACHINES LABORATORY.** Cr. 1. 9 lab. hrs. Mr. Price, Mr. Johnson.

For Graduates

536. **ADVANCED NETWORK THEORY.** Cr. 3. Mr. Griffith.

Second Term

Tom B. Stenis, Acting Head

For Undergraduates

225. **DIRECT CURRENT MACHINES LABORATORY.** Cr. 2. 18 lab. hrs. Mr. Grigsby, Mr. Meeks.
235. **PRINCIPLES OF DIRECT CURRENT MACHINERY.** Cr. 3. Mr. Grigsby.
319. **ELECTRICAL ENGINEERING LABORATORY.** Cr. 1. 9 lab. hrs. Mr. Hartsfield, Mr. Price, Mr. Johnson.
339. **ELEMENTS OF ELECTRICAL ENGINEERING.** Cr. 3. Mr. Hartsfield, Mr. Cardwell.

For Undergraduates and Graduates

317. **ELECTRONICS LABORATORY.** Cr. 1. 9 lab. hrs. Mr. Stenis, Mr. Easter.
337. **ELECTRONICS.**** Cr. 3. Mr. Stenis. Mr. Easter.
313. **ALTERNATING CURRENT CIRCUITS LABORATORY.** Cr. 1. 9 lab. hrs. Mr. Easter, Mr. Stenis.
333. **ALTERNATING CURRENT CIRCUITS.** Cr. 3. Mr. Houston.
412. **ENGINEERING SEMINAR.** Cr. 1. 9 lab. hrs. Mr. Houston.
4313. **ALTERNATING CURRENT MACHINES.** Cr. 3. Mr. Price.
4113. **ALTERNATING CURRENT MACHINES LABORATORY.** Cr. 1. 9 lab. hrs. Mr. Price.

For Graduates

537. **ADVANCED NETWORK THEORY.** Cr. 3. Mr. Griffith.

Industrial Engineering and Engineering Drawing

R. A. Dudek, Head

First Term

INDUSTRIAL ENGINEERING

332. **INDUSTRIAL ORGANIZATION AND MANAGEMENT.** Cr. 3. Mr. Dudek.
337. **PRODUCTION PLANNING AND CONTROL.** Cr. 3. Mr. Dudek.

ENGINEERING DRAWING

131. **ENGINEERING DRAWING.** Cr. 3. 15 lab. hrs. 3 lec. hrs. Mrs. Atkinson.
132. **DESCRIPTIVE GEOMETRY.** Cr. 3. 15 lab. hrs. 3 lec. hrs. Mrs. Atkinson.

Second Term

ENGINEERING DRAWING

131. **ENGINEERING DRAWING.** Cr. 3. 15 lab. hrs. 3 lec. hrs. Mr. Graham.
132. **DESCRIPTIVE GEOMETRY.** Cr. 3. 15 lab. hrs. 3 lec. hrs. Mr. Graham.

Mechanical Engineering

L. J. Powers, Head

First Term

For Undergraduates

237. **METALLURGY.** Cr. 3. Mr. Martin.
320. **METALS FABRICATION.** Cr. 2. 18 lab. hrs. Mr. Reis.
321. **METALS FABRICATION.** Cr. 2. 18 lab. hrs. Mr. Martin.
330. **ENGINEERING THERMODYNAMICS.** Cr. 3. Mr. Gentry, Mr. Helmers, Mr. Lawrence, Mr. Edmondson.
338. **AIR CONDITIONING.** Cr. 3. Mr. Mason.
3312. **MECHANICS OF MACHINERY.** Cr. 3. Mr. Edmondson.
3314. **MECHANICAL DESIGN.** Cr. 3. 18 lab. hrs. Mr. Powers.

For Undergraduates and Graduates

430. **MECHANICAL EQUIPMENT LABORATORY.** Cr. 3. 18 lab. hrs. Mr. Swinson.
435. **FLUID DYNAMICS.** Cr. 3. Mr. Lawrence.

Second Term

For Undergraduates

320. **METALS FABRICATION.** Cr. 2. 18 lab. hrs. Mr. Reis.
321. **METALS FABRICATION.** Cr. 2. 18 lab. hrs. Mr. Martin.
330. **ENGINEERING THERMODYNAMICS.** Cr. 3. Mr. Gentry, Mr. Helmers.
333. **COMBUSTION ENGINES.** Cr. 3. Mr. Martin.
335. **HEAT POWER DESIGN.** Cr. 3. Mr. Edmondson, Mr. Helmers, Mr. Mason.
3313. **DYNAMICS.** Cr. 3. Mr. Edmondson.
3315. **MECHANICAL DESIGN.** Cr. 3. 18 lab. hrs. Mr. Powers.

For Undergraduates and Graduates

431. **MECHANICAL EQUIPMENT LABORATORY.** Cr. 3. 18 lab. hrs. Mr. Gentry, Mr. Swinson.
4315. **HEAT AND MASS TRANSFER.** Cr. 3. Mr. Lawrence.

*First hour given this term.
**Last two hours given this term.

Petroleum Engineering

W. L. Ducker, Head

First Term

For Undergraduates and Graduates

412. **ENGINEERING SEMINAR. Cr. 1.** Mr. Decker, Mr. Johnson, Mr. Crawford, Mr. Rodgers.

420. **PETROLEUM ENGINEERING PROBLEMS. Cr. 2.** Staff.

Second Term

For Undergraduates and Graduates

412. **ENGINEERING SEMINAR. Cr. 1.** Staff.

420. **PETROLEUM ENGINEERING PROBLEMS. Cr. 2.** Staff.

School of Home Economics

Course work in home economics is available to the beginner, to the undergraduate, and to the graduate, although greater emphasis is given in the summer to meeting the needs of graduate students.

In recognition of the increasing need on the part of graduate students for short courses, the School of Home Economics has provided several such courses throughout both summer terms. The courses carry varying semester-hour credit, depending upon length.

Detailed information is given in departmental listings in applied arts, clothing and textiles, food and nutrition, home economics education, and home and family life. Special workshop courses are described more fully in the workshop section of this bulletin.

Applied Arts

Bill Lockhart, Acting Head

First Term

For Undergraduates

111. **INTERIOR DESIGN WORKSHOP. Cr. 1. (June 2-23.)** Mrs. Beitler.

131. **ART APPLIED TO DAILY LIVING. Cr. 3.** Mr. Lockhart.

228-1. **APPRECIATION OF ART TODAY. Cr. 2. (June 2-July 7.)** Mrs. Johnston. Mexico Tour. (Write for particulars.)

228-2. **APPRECIATION OF ART TODAY. Cr. 2.** Mr. Randall. Moab, Utah, Summer Camp. (Write for particulars.)

331. **INTERIOR DESIGN WORKSHOP. Cr. 3. (June 2-23.)** Mrs. Beitler.

337. **ART IN ELEMENTARY EDUCATION. Cr. 3.** Mr. Lockhart.

338. **ART IN ELEMENTARY EDUCATION. Cr. 3.** Mr. Randall. Moab, Utah, Summer Camp. (Write for particulars.)

For Undergraduates and Graduates

439. **EXPERIENCE TRAINING IN APPLIED ARTS. Cr. 3.** Mr. Lockhart.

For Graduates

531. **SPECIAL PROBLEMS. Cr. 3.** Mr. Lockhart.

Second Term

For Undergraduates

338. **ART IN ELEMENTARY EDUCATION. Cr. 3.** Mr. Lockhart.

For Undergraduates and Graduates

439. **EXPERIENCE TRAINING IN APPLIED ARTS. Cr. 3.** Mr. Lockhart.

For Graduates

531. **SPECIAL PROBLEMS. Cr. 3.** Mr. Lockhart.

Clothing and Textiles

Gene Shelden, Head

First Term

For Undergraduates and Graduates

411-1, 2. **SPECIAL PROBLEMS. Cr. 1 each unit.** Mrs. Kinchen.

For Graduates

511-A. **NEWER METHODS IN CONSTRUCTION. Cr. 1. (June 29-July 3.)** Mrs. Kinchen.

511-C. **APPLICATION OF NEWER TECHNIQUES OF CONSTRUCTION. Cr. 1. (July 6-10.)** Mrs. Kinchen.

Second Term

For Undergraduates and Graduates

411-1. **SPECIAL PROBLEMS IN MILLINERY. Cr. 1. (July 14-18.)** Mrs. Schneider.

411-2, 3. **SPECIAL PROBLEMS. Cr. 1 each unit.** Miss Shelden.

For Graduates

511-F. **SPECIAL PROBLEMS IN PERSONAL DEVELOPMENT. Cr. 1. (July 20-24.)** Mrs. Rothman.

531-A. **ADVANCED PATTERN DESIGN.** Cr. 3. (July 21-Aug. 14.) Miss Shelden.

5335. **TEXTILE TRENDS AND RESOURCES FOR ELEMENTARY TEACHERS.** Cr. 3. Miss Shelden.

Food and Nutrition

Mina Lamb, Head

First Term

For Undergraduates

111. **SCHOOL LUNCH WORKSHOP.** Cr. 1. (July 15-19.) Miss Tinsley.

135. **FOOD SELECTION AND PREPARATION (For Nurses).** Cr. 3. Mrs. Martin.

For Undergraduates and Graduates

411. **NUTRITION IN THE SCHOOL LUNCH.** Cr. 1. (July 15-19.) Miss Tinsley.

435. **FOOD DEMONSTRATION.** Cr. 3. (June 29-July 14.) Mrs. Holden.

For Graduates

5335. **PRINCIPLES AND APPLICATIONS OF NUTRITION FOR ELEMENTARY TEACHERS.** Cr. 3. Mrs. Lamb.

631. **THESIS.** Cr. 3. Mrs. Lamb.

Second Term

For Graduates

632. **THESIS.** Cr. 3. Mrs. Lamb, Miss Tinsley.

Home and Family Life

Elmer Knowles, Head

First Term

CHILD DEVELOPMENT AND FAMILY RELATIONS

For Undergraduates

233. **CHILD GROWTH AND DEVELOPMENT.** Cr. 3. Mrs. Camp.

HOME MANAGEMENT

For Undergraduates

232. **GENERAL HOME MANAGEMENT.** Cr. 3. Miss Drew.

For Undergraduates and Graduates

432. (Residence.) **HOME MANAGEMENT RESIDENCE.** Cr. 3. Miss Gerlach.

432. (Non-residence.) **HOME MANAGEMENT RESIDENCE.** Cr. 3. Miss Drew.

Second Term

CHILD DEVELOPMENT AND FAMILY RELATIONS

For Undergraduates

233. **CHILD GROWTH AND DEVELOPMENT.** Cr. 3. Mr. Knowles, Staff.

For Undergraduates and Graduates

433. **FAMILY RELATIONS.** Cr. 3. Mr. Knowles.

Home Economics Education

Vivian Adams, Head

First Term

For Undergraduates

331. **METHODS OF TEACHING HOME ECONOMICS.** Cr. 3. Miss Nesbitt.

For Graduates

534. **TECHNIQUES OF RESEARCH IN HOME ECONOMICS.** Cr. 3. (July 1-14.) Mrs. Adams.

631-632. **THESIS.** Cr. 6. Mrs. Adams, Staff.

Second Term

For Undergraduates

332. **ADVANCED METHODS OF TEACHING HOME ECONOMICS.** Cr. 3. Miss Nesbitt.

For Undergraduates and Graduates

513. **INSTRUCTOR TRAINING IN HOME CARE OF THE SICK.** Cr. 1. (July 14-18.) Mrs. Adams and Special Staff.

For Graduates

532. **CURRICULUM DEVELOPMENT IN HOME ECONOMICS.** Cr. 3. Miss Nesbitt.

631-632. **THESIS.** Cr. 6. Miss Nesbitt, Staff.

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SUMMER SESSION FACULTY, 1959

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