

BULLETIN OF
TEXAS TECHNOLOGICAL COLLEGE

Vol. XXXIII

March, 1957

No. 3

SUMMER SESSION
1957



Issued in January, February, March, April, May, June, August, October, and December of each year by the College.

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

Printed By
THE TEXAS TECH PRESS
Texas Technological College
Lubbock

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CALENDAR SUMMER SESSION

1957

First Term

- June 5. Wednesday. Dormitories open for room occupancy at 12 noon.
- June 6. Thursday. Summer session begins. Registration for first term.
Breakfast served as first meal in dormitories.
- June 7. Friday. Classes begin 7:40 A.M.
- June 10. Monday. Last day to register for the first term.
Last day to add courses.
Last day to apply for the Aptitude Test of the Graduate Record Examination to be given on July 17.
- June 20. Thursday. Last day on which a student may drop, without grade penalty, a course in which he is failing.
- July 4. Thursday. American Independence Day—College holiday.
- July 5. Friday. Classes resume 7:40 A.M.
- July 6. Saturday. Last day to file Personnel Information Forms and photographs at The Placement Office for students enrolled in first term of summer session. (For students enrolled in second term only, see entry for Aug. 8).
Last day to pay the \$5 graduation fee at the Business Office. Students who pay the fee after this date will not receive an actual 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 statement of intention to graduate on Aug. 28, 1957.
- July 9. Tuesday. Deans will submit tentative lists of all degree candidates to the Registrar.
- July 15-16. Monday-Tuesday. Final examinations for the first term.
- July 16. Tuesday. Dormitory dining rooms close with serving of evening meal.
- July 17. Wednesday. First term ends. Students without room reservations for the second term must vacate dormitory rooms by 10 A.M. on this date.

Second Term

- July 17. Wednesday. Dormitories open for room occupancy at 2 P.M.
The Aptitude Test of the Graduate Record Examination will be given.
- July 18. Thursday. Second term begins. Registration for the second term.
Breakfast served as first meal in dormitories.

- July 19. Friday. Classes begin 7:40 A.M.
Last day to order senior invitations. .
- July 22. Monday. Last day to register for the second term.
Last day to add courses.
- July 26. Friday. Last day to order academic regalia.
- Aug. 1. Thursday. Last day on which a student may drop, without grade penalty, a course in which he is failing.
Last day to file with the student's academic dean statement of intention to graduate on Aug. 28, 1957 for students enrolled in second term only.
Last day to accept \$5 graduation fee for students enrolled in second term only.
- Aug. 8. Thursday. Last day to complete correspondence courses. Instructors are to file grades for correspondence work not later than Aug. 15.
Last day to remove grades of "Inc." and "Pr." for degree candidates. Instructors are to send the change-of-grade card to the academic dean's office as soon as the work has been completed.
Last day to submit to the 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. 17. Saturday. Last day to submit to the Graduate Dean the final draft of theses and dissertations and to pay the binding fee.
- Aug. 24. Saturday. 2 P.M. Final examinations begin for the second term.
- Aug. 26-27. Monday-Tuesday. Final examinations continued to 2 P.M. on Tuesday, Aug. 27.
- Aug. 27. Tuesday. 4 P.M. Grades and reports of absences for degree candidates due at the Registrar's Office.
Degree candidates pick up academic regalia at the College Bookstore.
- Aug. 28. Wednesday. 8:30 A.M. Rehearsal for Commencement. All August graduates are to be present.
9:30 A.M. Each academic dean will bring to the Registrar's Office in person the final and official list of graduates in his school.
3-4:30 P.M. President's reception for graduates.
7:15 P.M. Commencement Exercises.
Dormitory dining rooms close with serving of evening meal.
- Aug. 29. Thursday. Second term ends. Summer session closes. Students must vacate dormitory rooms by 10 A.M. on this date.
- Aug. 30. Friday. 8:30 A.M. Grades and absence reports on all students due at the Registrar's Office.

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1956-1957

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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 150,000. Excellent churches, schools, hotels, and shopping centers are available. Two railway systems, an interstate bus line, an excellent highway system, and two 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 \$20,088,000.

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.

The Library

The Library of Texas Technological College, consisting of 149,147 catalogued volumes, 37,985 periodicals, and 133,724 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 18 sub-professionals, providing service 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: 8 A.M. to 10 P.M., Monday through Friday; 8 A.M. to 5 P.M. Saturday; 2 to 5 P.M. Sunday, except during vacation periods. Closed holidays. Summer session: 7:30 A.M. to 9:30 P.M., Monday through Friday; 7:30 A.M. to 4:30 P.M. Saturday. Closed Sunday and holidays.

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 the summer school.

The 1957 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 freshman curricula. Students with deficiencies such as English, mathematics or science are strongly urged to attend the summer session to remove such requirements. Early removal of these deficiencies may prevent delay in ultimate graduation. Entering freshmen will also be able to take the placement tests rather than during the more crowded fall testing period.
2. *Students of the Long Session* will find the summer school profitable for making up courses or speeding up their college training.
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 to serve 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 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 Registrar is the Director of Admissions and 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. 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	2
algebra, geometry, trigonometry*	
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 strongly 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. Opportunity has been provided for the removal of these deficiencies both in the summer school and in the fall semester.

Admission from Other Colleges and Universities. Undergraduate students who have attended another college, who have the usual honorable dismissal, 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, and 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.

*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.

Admission to the Graduate School. The applicant with a bachelor's degree from Texas Technological College or other recognized college or university may be admitted to the Graduate School on the basis of a complete transcript from each college attended. For complete information regarding candidacy for graduate degrees, see the Bulletin of the Graduate School.

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, however, does not guarantee admission as a regular student in the following fall semester. Such students must present transcripts and meet regular admission requirements before being admitted.

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 \$17.50. For resident students who enroll for less than 4 semester hours in any six-week term, the registration fee is \$12.50 per term.

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

A non-resident student is defined on Pages 48 and 49 in the General Catalog, 1956-57.

Any student who wrongfully pays the Texas rather than the non-resident fee may be assessed a penalty not to exceed \$5.

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 51 of the General Catalog, 1956-57, 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

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

\$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 freshman 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 the 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.

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 238, 239, 4311, 4312, 421 \$5.00

Course Fees:

Clothing and Textiles 335 \$5.00

Education 4315 \$5.00

Physical Education 4321 \$10.00

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

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 suspended 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 \$5 for each course is required for the privilege of visiting any course. No credit may be obtained for auditing courses in this manner.

Music Fees for 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, 335, 336, 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)	\$ 17.50
General Property Deposit (refundable)	7.00
Student Union Fee (required)	2.50
Laboratory Fees (approximate)	4.00
Books and Supplies (approximate)	15.00
<i>Total for six-week term</i>	<u>\$ 46.00</u>
Board and Room in College Dormitory	97.50
<i>Estimated grand total for six-week term</i>	<u>\$143.50</u>

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 \$97.50 per term of six weeks, payable in advance. Corner rooms will be \$99.75 for six weeks. There are a few double rooms with bath which may be had at a cost, including board, of \$108.75 for six weeks. If facilities are available, one student may occupy a double room for \$108.75 per term of six weeks.

Dormitory Reservations. Applications for dormitory reservations will be made to the Office of Dormitory Reservations. A check for \$20 should 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.

Graduate School

Texas Technological College offers the following masters' degrees: Master of Arts, Master of Arts in Teaching, Master of Business Administration, Master of Education, Master of Science, Master of Science in Agriculture, Master of Science in Chemical Engineering, Master of Science in Electrical Engineering, and Master of Science in Home Economics.

Work leading to the appropriate master's degree is available in the following departments and schools: Agriculture, Biology (including Botany and Zoology), Business Administration, Chemistry and Chemical Engineering, Education and Philosophy, Electrical Engineering, English, Foreign Languages, Geology, Government, Health and Physical Education and Recreation, History (including Sociology), Home Economics, Mathematics, Music, Physics, Psychology, and Speech.

The College offers also the degree of Doctor of Education, with a major in Education, and the degree of Doctor of Philosophy, with majors in Chemistry, English, History, and Psychology.

Regulations concerning all aspects of the graduate work are set forth in the Graduate Bulletin, copies of which may be secured from the Registrar. Application for admission to the Graduate School should be made well in advance of registration. Prospective students who fail to file their applications early must reconcile themselves to considerable delay and inconvenience in securing permission to enroll. Inquires concern-

ing admission may be addressed to the Director of Admissions, or to the Dean of the Graduate School. The Aptitude Test of the Graduate Record Examinations is required for admission to any graduate degree program.

Division of Extension

Approximately 250 college courses and 40 high school courses, including both credit and non-credit courses, are offered by correspondence and extension class work for those who are unable to secure classes in residence. Credit courses may count on degrees and teacher's certificates (or college entrance). A list of the courses that are available may be secured upon request directed to the Division of Extension, Texas Technological College.

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 nowhere else available 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 programs, or on-the-job training positions in fields 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 years of age, 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 Head of the Department. Should the student elect air science, he agrees to complete the basic course unless released for reasons beyond his control.

A Federal draft deferment is provided 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 1957.

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 U. S. Army. Commissions may be given in 13 branches 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 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 courses will be offered during the summer of 1957.

Class Work and Routine

Student Load. The normal load for 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.

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.

Recreation

The on-campus recreation program during the summer session is centered primarily in the Tech Union Building and sponsored by the Tech Union Program Council. Each summer the Union offers a well-balanced series of programs of professional entertainment, weekly movies, dances, special events and tournaments in billiards, ping pong, and card table games. This series of programs is made possible by virtue of the Tech Union fee and is open to all summer school students. The

Tech Union endeavors to provide food service, leisure time activities, meeting facilities for the entire campus. The Union hopes that all students, wives, children and faculty will avail themselves of these services.

Other recreational 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.

Workshop in Business Education

From June 10 to June 28 a workshop for business teachers will be conducted by Dr. William R. Pasewark, Acting Head, Department of Business Education, and by visiting specialists. The workshop will emphasize shorthand and typewriting. A unit on office automation will be presented. For credit in workshop, students will enroll in Business Education 531.

Domestic Tour, Appreciation of Art Today, June 4-21

Persons interesting in registering for Applied Arts 228, the domestic tour course in art appreciation, should write or see Mr. Arne W. Randall, Department of Applied Arts, Tech College.

The purpose of this tour is to provide students an opportunity to see the great fine and applied arts in their proper setting. Many of the students will follow some phase of applied art vocationally. This will give many their only opportunity to study the art first hand. Total expense of the trip, including tuition, books, meals, lodging and transportation round trip from Lubbock (all except personal purchases), will be approximately \$250 depending on the living index. This trip will include fine and applied art centers in the following cities: Kansas City, Chicago, Detroit, Cleveland, Pittsburgh, New York, Philadelphia, Washington D. C., Williamsburg, Gatlenberg, and Birmingham.

Arrangements will be made for students also to see some theatre, ballet, and concerts.

Home Nursing Workshop

American Red Cross Instructor Training in Home Care of the Sick, Home Economics Education 413, carrying 1 semester hour credit, will be offered July 11-17.

Completion of the course will qualify enrollees to teach Red Cross home nursing classes in Civil Defense programs in their communities. This workshop will be conducted by Mrs. Vivian J. Adams and field representatives from the American Red Cross.

F. H. A. Workshops

Future Homemakers of America Workshop, Home Economics Education 414-1 and 414-2, carrying 1 semester hour credit for each course, will be offered July 18-24 and July 25-31.

- 414-1. FHA Workshop. July 18-24.
Exploring FHA contributions to
balanced homemaking programs.
- 414-2. FHA Workshop. July 25-31.
Adapting national and state programs
of work for local FHA chapters.

The two one-week courses constitute a unit. The staff strongly urge enrollees to take both courses; however, in unusual circumstances, either course may be taken without the other.

The FHA Workshop will be staffed by national FHA advisers from the Washington office, Miss Josephine Pazdral, Texas State FHA adviser, two Texas area supervisors, Miss Esther Sorensen and Mrs. Elizabeth Smith, and Dean Willa Vaughn Tinsley.

Two School Lunch Workshops

A one-week, non-credit workshop for school lunch personnel will be held July 8-12, directed by Dean Willa Vaughn Tinsley and visiting staff.

Simultaneously with the non-credit workshop, Food and Nutrition 411-1, a one-credit workshop will be held for school lunch supervisors who are eligible for college credit. Highly trained and experienced staff will assist in this workshop.

Workshops in Clothing and Textiles

Two one-credit graduate workshops will be offered the first six weeks, as follows:

- 511-4. New Developments in the Textile Field. Cr. 1. July 1-6. A study of the new fibers, fabrics, and finishes as a basis for selecting textiles for specific needs. Emphasis on buymanship and care.
- 511-1. Basic Techniques in the Newer Methods of Clothing Construction. Cr. 1. July 8-12. Introduction to Bishop and other professional techniques and finishes. With emphasis on cutting to fit, on accuracy, and on reduced amount of hand work.

Field Course in Archaeology

A field school investigating historical and archaeological problems

in north central New Mexico will be conducted during the first term of summer school, 1957, under the direction of Dr. D. F. Wendorf. The site to be worked lies approximately eight miles southeast of Taos, New Mexico; the field school camp will be at the site. Transportation and maintenance costs for the 6-week term will be approximately \$100; this sum does not include the registration (tuition) fee. Students will enroll in Anthropology 433, 434. For information write Dr. D. F. Wendorf, The Museum, Tech Station, Lubbock, Texas.

Travel Course, Europe, Summer, 1958

A travel course in Europe (History 3314, 3315) is planned for the summer of 1958. For information relative to credit, costs, sailing dates and itinerary, write or see Dr. W. M. Pearce, Head Department of History, Tech Station, Lubbock, Texas.

Field Trip To Mexico City, 1958

A group study course, Spanish 4328-29, 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 1958.

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 pre-school Spanish-speaking children and one of first-grade 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 a part of the composite minor for the M.S. in Education. The course will be conducted from June 10 to June 28 by Dr. 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.

Texas Tech at the Sorbonne, 1957

This 1957 summer program offers a combination of European travel and study of the French language at the Sorbonne, Europe's oldest university. The itinerary includes seven countries: England, Holland, Belgium, France, Germany, Switzerland, and Monaco. During the period of

European travel, students will use a graded text for all levels of conversational French: Kany and Dondo's *Spoken French for Students and Travelers*. During the four-week course at the Sorbonne in Paris, students will work in small graded sections best suited to their individual needs from 9 to 12 a.m. daily. A typical day in Paris will include classes in the morning, a visit to the Louvre in the afternoon, and the evening free for study; or classes in the morning, the afternoon for study, and the theater in the evening.

Credit in French may be earned under one of the following plans:

1. Students who have had no French may receive 6 semester hours of credit in French 131-132 by enrolling for the correspondence course in the Extension Division.

2. Students who have had at some time one year of college French or two years of high school French may receive 6 semester hours of credit in French 231-232 (second-year college French).

3. Students who have had more French may receive credit in 331-332 or 435-436 (including graduate credit for those who qualify as graduate students).

The tour and course will last 51 days, from June 27 to August 16, 1957. Travel is by airplane from New York and luxury motor-coach on land.

For detailed information on credit and costs and a complete itinerary write to the Head of the Department of Foreign Languages, Texas Technological College.

Literary Tour of Europe, 1957

This summer the English Department is offering a travel course, English 3311-3312, visiting important literary shrines in Europe. 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) 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. The group will leave Quebec by boat on June 12—or one may fly from New York—and return to this country about August 8.

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.

Dramatics and Forensics (High School) Workshop

A workshop in dramatics and forensics for high school students will be conducted by the Speech Department, June 24-July 6. It is open to any high school sophomore or junior, or outstanding freshman of the

1956-57 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 1957.

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. A field trip to Denver and the Central City Festival is planned for the final week-end.

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.

Plans are being made for the students interested in forensics to meet, in contests if possible, students in similar workshops at the Universities of Colorado and Denver during the field trip. The problem of the 1957-58 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, Lubbock.

American Theater Tour

The Speech Department will offer for the first time 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 finally, the sessions of the annual convention of the American Educational Theatre Association in Boston, August 25-28.

This course will be open to undergraduate students only. 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. For further information write to the Speech Department, Texas Technological College, Lubbock.

Special Education Program

A joint program involving the Departments of Applied Arts, Psychology, Education, Physical Education, and Speech will be offered during the two semesters 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.

Summer Seminars in Educational Administration

A series of seminars have been scheduled in school administration for the summer session.

Students may take these seminars for credit by enrolling in Education 5139. The two seminars to be offered the first term are: (1) Audio-Visual Education, June 17-21 and (2) Maintenance and Operation of School Facilities, June 24-28. The seminar scheduled for the second term of the summer session is in Adult Education, July 22-26. Each of the seminars is for one week and carries one semester-hour credit. Students may enroll in one or more at regular registration time or at the beginning of each seminar.

Summer Music School for Precollege Students (Band, Chorus and Orchestra)

Texas Technological College maintains a large summer band, orchestra, and choral program. This feature is concurrent with the first summer session of the College. 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 Dr. A. A. Harding of the University of Illinois, Roger Wagner, director of the Roger Wagner Chorale, and other nationally known conductors.

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

Orchestra. College and public school instructors will join forces to conduct the third 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.

Cotton Classing Short Course

The Annual Cotton Classing Short Course will be offered from June 3 to June 14 inclusive if demand is sufficient.

Given in cooperation with the U.S.D.A. local Cotton Classing Office, this course is designed primarily for ginnermen and merchants. It is open to any interested in learning the fundamentals of classing cotton, either by conventional methods or the newer methods employed in mechanical classing with scientific instruments.

This course carries no special entrance requirements other than specific interest in the subject matter. College credit is not given. Sections are provided for beginners, experienced classers, and those interested in cotton quality evaluation by instrumental methods.

Special inquiries should be addressed to:
Head, Department of Textile Engineering
P. O. Box 4150, Tech Station
Texas Technological College,
Lubbock, Texas

The 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 the year from students who desire to dispose of such books.

Summer Session in the Lubbock Public Schools

The summer school of the Lubbock Public Schools will begin June 3 and continue through July 30. In grades one through twelve, courses in the fundamental subjects will be offered for the removal of deficiencies. Credit work of not more than two one-half units per student will be offered in grades nine through twelve. Courses in English, social studies, mathematics, and some electives may be taken.

Tuition will vary according to grade level and will be announced later. Further information may be obtained by writing to the office of the Assistant Superintendent, Administrative Staff Office, 1715 26th Street, Lubbock.

Admissions to Candidacy for Graduation

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

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

Summer School Commencement

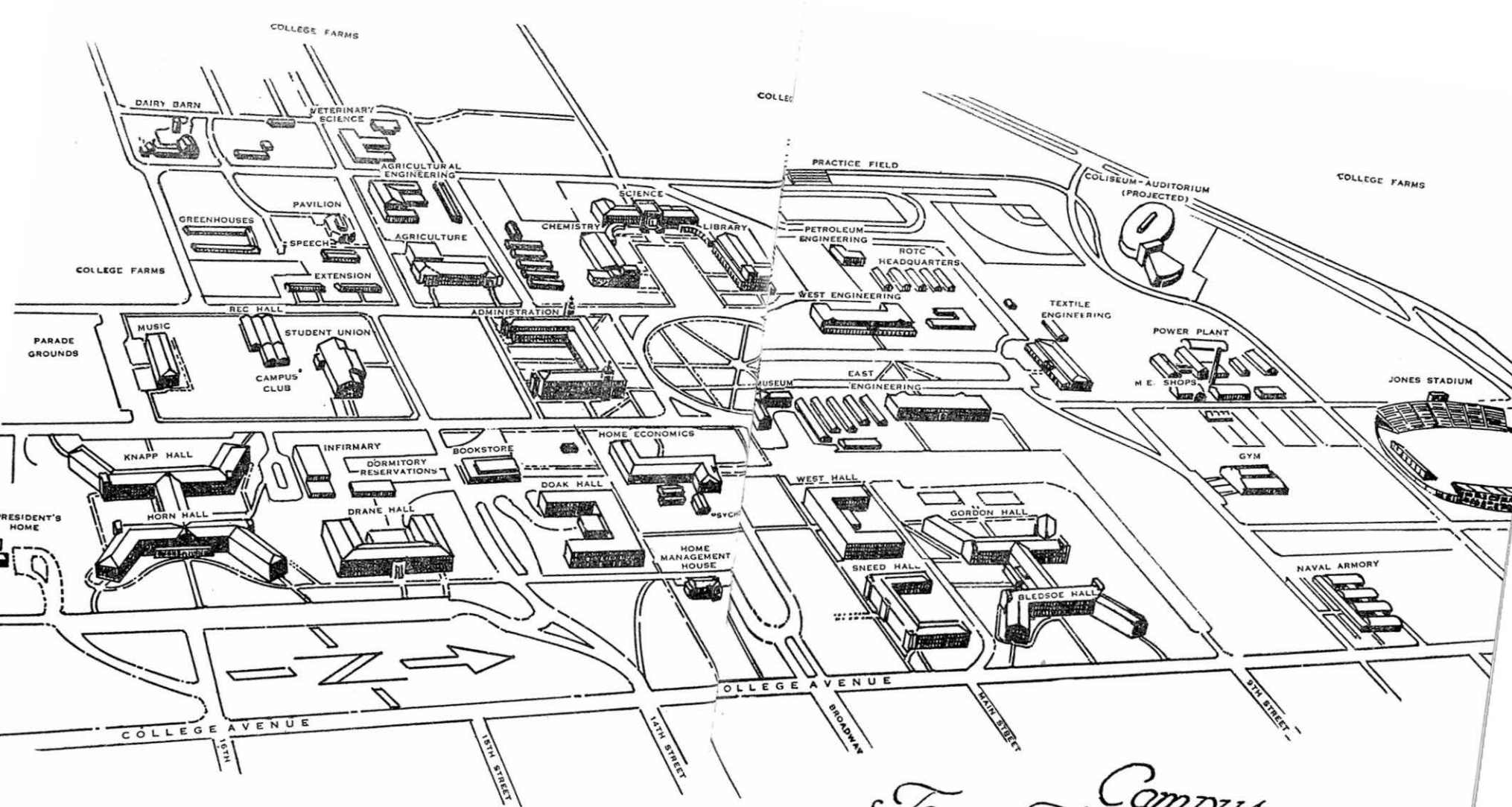
A student who completes all work for any degree at the end of either term will have the degree conferred during the commencement program to be held the last day of the summer session. Summer Commencement is scheduled to be held on Wednesday, Aug. 28.

Other Academic Regulations

For regulations covering probation, withdrawing from college, dropping courses, grades, and other matters, see the Thirty-first General Catalog.

Further Information

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



*Campus
Texas Technological College
Lubbock, Texas*

OUTLINE OF COURSES

Explanation of Course Numbers. The numbers used for designating courses are uniform. From left to right, the first digit indicates the college year in which the course is normally taken; the second digit shows the semester-hour value of the course; the last digit (or digits) is the departmental course number. To illustrate: English 131 is a freshman course with a credit value of 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 catalog 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. The 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 Thirty-first General Catalog for course descriptions and prerequisites.

SCHOOL OF AGRICULTURE

The summer session for the School of Agriculture will include undergraduate courses in agricultural economics, 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

James W. Bennett, Acting Head

First Term

For Undergraduates

334. Agricultural Policies and Organizations. Cr. 3. Mr. Billingsley.

For Undergraduates and Graduates

431. Livestock Marketing. Cr. 3. Mr. Bennett.
432. Statistical Methods in Agricultural Research. Cr. 3. Mr. Billingsley.

For Graduates

533. Marketing Problems Seminar. Cr. 3. Mr. Bennett.

Second Term

E. L. McBride, Acting Head

RURAL SOCIOLOGY**For Undergraduates**

331. Rural Sociology. Cr. 3. Mr. McBride.

AGRICULTURAL EDUCATION

Ray L. Chappelle, Head

*First Term***For Graduates**

426. Advanced Methods. Cr. 2. Mr. Hargrave.
 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. Thesis. Cr. 3. Mr. Chappelle.
 632. Thesis. Cr. 3. 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. Thesis. Cr. 3. Mr. Chappelle.
 632. Thesis. Cr. 3. Mr. Chappelle.

AGRICULTURAL ENGINEERING*First Term*

Ira L. Williams, Head

For Undergraduates

222. Surveying and Mapping. Cr. 2. 3 lec. hrs., 9 lab. hrs. Mr. Williams.
 322. Farm Shop Metalwork. Cr. 2. 3 lec. hrs., 9 lab. hrs. Mr. Williams.

For Undergraduates and Graduates

435. Farm Mechanics Problems. Cr. 3. Mr. Williams.

Second Term

Victor L. Hauser, Acting Head

For Undergraduates

321. Farm Shop Woodwork. Cr. 2. 3 lec. hrs., 9 lab. hrs., Mr. Hauser.
 335. Irrigation Principles. Cr. 3. 6 lec. hrs., 6 lab. hrs., Mr. Hauser.

For Undergraduates and Graduates

435. Farm Mechanics Problems. Cr. 3. Mr. Hauser.

AGRONOMY

A. W. Young, Head

*First Term***For Undergraduates**

341. Principles of Genetics. Cr. 4. 9 lec. hrs., 6 lab. hrs. Mr. Ayers.

For Undergraduates and Graduates

422. Soil Management. Cr. 2. 6 lec. hrs. Mr. Jaynes.
 441. Plant Production. Cr. 4. 6 lec. hrs., 12 lab. hrs. Mr. Jaynes.

For Graduates

511. Agronomy Seminar. Cr. 1. 3 lec. hrs. Mr. Ayers.
 534. Agronomy Problems. Cr. 3. Mr. Young.
 535. Research Methods. Cr. 3. 9 lec. hrs. Mr. Young.
 631. Thesis. Cr. 3. Mr. Young.

*Second Term***For Graduates**

534. Agronomy Problems. Cr. 3. Mr. Young.
 632. Thesis. Cr. 3. Mr. Young.

ANIMAL HUSBANDRY

N. C. Fine, Acting Head

*First Term***ANIMAL HUSBANDRY****For Undergraduates**

131. General Animal Husbandry. Cr. 3. 6 lec. hrs., 6 lab. hrs. Mr. Anderson.
 431. Beef Cattle Production. Cr. 3. Mr. Anderson.
 436. Advanced Animal Nutrition. Cr. 3. Mr. Neeley.

For Graduates

533. Current Investigations in Animal Husbandry. Cr. 3. Staff.
 631, 632. Thesis. Cr. 3, 3. Staff.

*Second Term***ANIMAL HUSBANDRY****For Undergraduates**

331. Animal Nutrition and Principles of Feeding. Cr. 3. Mr. O'Brien.
 427. Swine Production. Cr. 2. Mr. O'Brien.
 432. Animal Breeding. Cr. 3. Mr. Fine.

For Graduates

533. Current Investigations in Animal Husbandry. Cr. 3. Mr. Fine.
 631, 632. Thesis. Cr. 3, 3. 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**

131. Principles of Dairying. Cr. 3. 6 lec. hrs., 9 lab. hrs. Mr. Willingham.
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

231. Introductory Entomology. Cr. 3. 6 lec. hrs., 6 lab. hrs. Mr. Ashdown.

For Undergraduates and Graduates

431. Agricultural Compounds. Cr. 3. 9 lec. hrs. Mr. Ashdown.

HORTICULTURE

For Undergraduates

131. Principles of Horticulture. Cr. 3. 6 lec. hrs., 6 lab. hrs. Mr. Rucker.

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 or 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

133. Botany. Cr. 3. 6 lec. hrs., 9 lab. hrs. Mr. Camp.

For Undergraduates and Graduates

332. Teaching of Biology. Cr. 3. 9 lec. hrs. Mr. Cross.
333. Bioecology. Cr. 3. 9 lec. hrs. Given in the field during first half of first term. (Write to Head of Department for particulars. Registrants should notify Mr. Studhalter by May 15.) Mr. Studhalter.

ZOOLOGY

For Undergraduates

- 231-232 Comparative Vertebrate Zoology. Cr. 6. 12 lec. hrs., 18 lab. hrs. Mr. Landwer.

For Undergraduates and Graduates

331. Histology. Cr. 3. 6 lec. hrs., 9 lab. hrs. Mr. Landwer.

Second Term

BACTERIOLOGY

For Undergraduates

131. Bacteriology for Nurses. Cr. 3. 6 lec. hrs., 9 lab hrs. Miss Holman.

BIOLOGY

For Undergraduates

133. Botany. Cr. 3. 6 lec. hrs., 9 lab. hrs. (tentative)
 134. Zoology. Cr. 3. 6 lec. hrs., 9 lab. hrs. Mrs. Duran.

CHEMISTRY and CHEMICAL ENGINEERING

Joe Dennis, Head

First Term

CHEMISTRY

For Undergraduates

133. Elementary Chemistry. Cr. 3. 6 lec. hrs., 9 lab. hrs. Miss Stuart.
 141. General Chemistry. Cr. 4. 9 lec. hrs., 9 lab. hrs. Mr. Slagle.
 231. Qualitative Analysis. Cr. 3. 6 lec. hrs., 9 lab. hrs. Miss Stuart.
 331. Quantitative Analysis. Cr. 3. 22½ lab. hrs. Mr. Oberg.
 341. Organic Chemistry. Cr. 4. 9 class hours., 9 lab. hrs. Mr. Estok.
 353. Organic Chemistry. Cr. 5. 9 lec. hrs., 18 lab. hrs. Mr. Goodwin, Mr. Estok.

Second Term

CHEMISTRY

For Undergraduates

134. Elementary Chemistry. Cr. 3. 6 lec. hrs., 9 lab. hrs. Mr. Rekers.
 142. General Chemistry. Cr. 4. 9 lec. hrs., 9 lab. hrs. Mr. Wilhoit, Mr. Rekers.
 332. Quantitative Analysis. Cr. 3. 22½ lab. hrs. Mr. Craig.
 354. Organic Chemistry. Cr. 5. 9 lec. hrs., 19 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. Barnett.

- 431. Student Observation and Teaching in the Elementary School.
Cr. 3. Mrs. Corhn.
- 432. Student Observation and Teaching in the Secondary School. Cr.
3. Mrs. Corhn.
- 433. Advanced Observation and Teaching in the Elementary 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 Modern Education. Cr. 3. Mr. Garlin.
- 333. Curriculum Development in Elementary Education. Cr. 3. Mrs.
Wheeler.
- 334. Curriculum Development in Secondary Education. Cr. 3. Mr.
Jackson.
- 335. Elementary Education Methods. Cr. 3. Mr. Mecham.
- 336. Secondary Education Methods. Cr. 3. Mrs. Wheeler.
- 338. Elementary Educational Statistics. Cr. 3. Mr. Cooper.
- 430. History and Philosophy of Education. Cr. 3. Mr. Jackson.
- 437. School Public Relations. Cr. 3. Mr. Wallace.
- 4315. Audio-Visual Education. Cr. 3. Mr. Davidson, Mr. Gammill.
- 4325. Children's Literature. Cr. 3. Mr. Browning.
- 4326. Reading Development in the Elementary School. Cr. 3. Mr.
Livingston.

For Graduates

- 536. Elementary School Administration. Cr. 3. Mr. Browning.
- 537. Secondary School Administration. Cr. 3. Mr. Fallon.
- 539. Administration of Business Services. Cr. 3. Mr. Cooper.
- 5139. Advanced Administration Workshop. Cr. 1. Mr. Wallace.
- 5139. Advanced Administration Workshop. Cr. 1. Mr. Wallace.
- 5314. Advanced Curriculum Development. Cr. 3. Mr. Mecham.
- 5316. Junior College Education. Cr. 3. Mr. Fallon.
- 5319. Audio-Visual Production. Cr. 3. Mr. Davidson.
- 5341. Developing Arithmetic Programs in Elementary Education.
Cr. 3. Mr. Livingston.
- 5351. General Education Seminar. Cr. 3. Mr. Garlin.
- 631-632. Master's Thesis. Cr. 6. Staff.
- 731-732. Research. Cr. 6. Staff.
- 831-832. Doctor's Dissertation. Cr. 6. Staff.

PHILOSOPHY

- 432. Philosophy of Value. Cr. 3. Mr. Little.
- 5351. Structure and Dynamics of Philosophical Thought. Cr. 3.
Mr. Little.

Second Term

EDUCATION

For Undergraduates and Graduates

- 330. Principles of Modern Education. Cr. 3. Mr. Garlin.

- 333. Curriculum Development in the Elementary School. Cr. 3. Mrs. Wheeler.
- 334. Curriculum Development in the Secondary School. Cr. 3. Mrs. Wheeler.
- 335. Elementary Education Methods. Cr. 3. Mr. Mecham.
- 336. Secondary Education Methods. Cr. 3. Mr. Garlin.
- 435. Educational Evaluation. Cr. 3. Mr. Fallon.
- 436. Public School Administration. Cr. 3. Mr. Fallon.
- 438. Supervision and Curriculum Development. Cr. 3. Mr. Wallace.
- 4315. Audio-Visual Education. Cr. 3. Mr. Davidson.
- 4326. Reading Development in the Elementary School. Cr. 3. Mr. Livingston.
- 5312. Elementary Supervision and Curriculum Development. Cr. 3. Mr. Browning.
- 5318. Audio-Visual Education Practicum. Cr. 3. Mr. Davidson.
- 5322. Foundations of Educational Research. Cr. 3. Mr. Cooper.
- 5325. Legal Bases for Education. Cr. 3. Mr. Cooper.
- 5331. Human Development in Education. Cr. 3. Mr. Mecham.
- 5342. Developing Reading Programs in Elementary Education. Cr. 3. Mr. Livingston.
- 5345. Developing Social Studies Programs in Elementary Education. Cr. 3. Mr. Browning.

ADULT EDUCATION

- 5139. Advanced Administrative Workshop. Cr. 1. Mr. Stensland.
- 5332. Democratic Group Processes. Cr. 3. Mr. Stensland.

ENGLISH

T. W. Camp, Head

First Term

For Undergraduates

- 131. English Composition. Cr. 3. Staff.
- 132. English Composition. Cr. 3. Staff.
- 231. Masterpieces of Literature. Cr. 3. Staff.
- 232. Masterpieces of Literature. Cr. 3. Staff.
- 233. Technical Writing for Engineers. Cr. 3. Mr. Litzinger.
- 3311-3312. Literary Tour of Europe. Cr. 6. Mrs. Strout.

For Undergraduates and Graduates

- 432. Shakespeare. Cr. 3. Mr. McCullen.
- 4312. Age of Johnson. Cr. 3. Mr. Camp.
- 4319. Victorian Literature. Cr. 3. Miss Teague.
- 4322. Literature of the Southwest. Cr. 3. Mr. Gillis.

For Graduates

- 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. English Composition. Cr. 3. Staff.
 132. English Composition. Cr. 3. Staff.
 231. Masterpieces of Literature. Cr. 3. Staff.
 232. Masterpieces of Literature. Cr. 3. Staff.
 233. Technical Writing for Engineers. Cr. 3. Miss Lewis.

For Undergraduates

332. American Drama. Cr. 3. Mr. Murphy.

For Undergraduates and Graduates

4323. American Literature and Its Backgrounds. Cr. 3. Mr. Nall.
 4325. The American Novel to 1870. Cr. 3. Mr. Guilds.

For Graduates

- 631-632. Thesis. Cr. 6. Staff.
 731. Research. Cr. 3. Staff.
 831-832. Doctor's Dissertation. Cr. 6. Staff.

FOREIGN LANGUAGES

First Term

Eunice J. Gates, Acting Head

For Undergraduates**FRENCH**

131. A Beginning Course in French. Cr. 3. Mrs. Tucker.

GERMAN

131. A Beginning Course in German. Cr. 3. Mr. Alexander.
 *233. Scientific German. Cr. 3. Mr. Alexander.
 * Students who prefer German 231, the literary course, should register for 233. They will use different materials.

SPANISH

131. A Beginning Course in Spanish. Cr. 3. Mrs. Tucker.
 231. A Second Course in Spanish. Cr. 3. Mrs. Gates.

For Undergraduates and Graduates

4326. Survey of Spanish American Literature. Cr. 3. Mrs. Gates.

For Graduates

5312. Studies in Spanish and Spanish American Literature. Cr. 3. Staff.
 5335. Spanish in the Elementary School. Cr. 3. Miss Bumpass.
 631-632. Master's Thesis. Cr. 3 each. Staff.

Texas Tech at the Sorbonne, June 27-Aug. 15

John C. Dowling, in charge

FRENCH**For Undergraduates**

- 231-232. A Second Course in French. Cr. 3 each. Mr. Dowling.

- 331-332. Introduction to French Life and Literature. Cr. 3 each.
Mr. Dowling.

For Undergraduates and Graduates

- 435-436. Studies in French Language and Literature. Cr. 3 each. Mr.
Dowling.

Second Term

A. B. Strehli, Acting Head

For Undergraduates

FRENCH

132. A Beginning Course in French. Cr. 3. Mr. Hamilton.

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. 3 each. Staff.

GEOLOGY

F. Alton Wade, Head

First Term

For Undergraduates

141. Physical 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
of Department for particulars.) Staff.

For Graduates

- 631-632. Master's Thesis. Cr. 6. Staff.

Second Term

For Undergraduates

142. Historical Geology. Cr. 4. 9 lec. hrs., 9 lab. hrs.

For Undergraduates and Graduates

363. Field Geology. Cr. 6. Given in the field. (Write to Head of Department for particulars.) Staff.

For Graduates

5322. Advanced Field Geology. Cr. 6. Mr. Mattox.
631-632. Master's Thesis. Cr. 6. Staff.

GOVERNMENT

J. William Davis, Head

First Term

233. American Government, Organization. Cr. 3. Mr. Mack, Mr. Davis, Mr. Johnson, Mr. Kennedy, Mr. Fuller.
234. American Government, Functions. Cr. 3. Mr. Oden, Mr. Mack.
332. European Political Ideas. Cr. 3. Mr. Davis.
337. Public Administration, Organization. Cr. 3. Mr. Jackson.
3313. Russian Government. Cr. 3. Mr. Kennedy.

Second Term

233. American Government, Organization. Cr. 3. Mr. Johnson, Mr. Abernethy, Mr. Mack.
234. American Government Functions. Cr. 3. Mr. Mack, Mr. Johnson, Mr. Davis, Mr. Fuller, Mr. Oden.
336. United States Foreign Policy. Cr. 3. Mr. Fuller.
433. Modern Political Ideas. Cr. 3. Mr. Oden.
531. Reading and Research. Cr. 3. Mr. Davis.
5335. Political Ideologies and Institutions. Cr. 3.

HEALTH and PHYSICAL EDUCATION and RECREATION

Ramon W. Kireilis, Head

*First Term***For Undergraduates****For Men**

011. Adapted Sports. Cr. 1. Mr. Kireilis.
0111. Beginning Bowling. Cr. 1. Mr. Kireilis.
0113. Advanced Bowling. Cr. 1. Mr. Kireilis.
0127. Beginning Tennis. Cr. 1. Mr. Jennings.
0128. Advanced Tennis. Cr. 1. Mr. Jennings.

For Men and Women

012. Beginning Swimming. Cr. 1. Mr. Kireilis.
013. Advanced Swimming. Cr. 1. Mr. Kireilis.
017. Golf. Cr. 1. Mr. Jennings.
0111. Beginning Bowling. Cr. 1. Miss Hoyle.
2111. Golf. Cr. 1. Miss Hoyle.
230. Health Education in the Elementary and Secondary Schools. Cr. 3. Miss Hoyle.

For Undergraduates and Graduates**For Men**

4322. Organization and Administration of Interscholastic and Inter-collegiate Athletic Programs. Cr. 3. Mr. Jennings.

For Men and Women

4326. Safety Education. Cr. 3. Mr. Kireilis.

*Second Term***For Undergraduates****For Men**

011. Adapted Sports. Cr. 1. Mr. Philbrick.
 012. Beginning Swimming. Cr. 1. Mr. Philbrick.
 013. Advanced Swimming. Cr. 1. Mr. Philbrick.
 0111. Beginning Bowling. Cr. 1. Mr. Philbrick.
 0113. Advanced Bowling. Cr. 1. Mr. Philbrick.

For Men and Women

212. Tennis. Cr. 1. Miss Rainey.
 2117. Archery. Cr. 1. Miss Rainey.
 233. Physical Education for the Elementary School. Cr. 3. Miss Rainey.

For Undergraduates and Graduates**For Men and Women**

4321. Methods and Techniques of Driver Instruction. Cr. 3.
 Mr. Jennings. (Three-week course.)
 4324. Organization and Administration of Intramural Sports. Cr. 3.
 Mr. Philbrick.

HISTORY, ANTHROPOLOGY and SOCIOLOGY**W. M. Pearce, Head***First Term***HISTORY****For Undergraduates**

231. Economic, Social and Political History of the United States to 1865. Cr. 3. Staff.
 235. Survey of Texas History. Cr. 3. Mr. Wallace.
 3321. The American Heritage, to 1865. Cr. 3. Staff.

For Undergraduates and Graduates

4328. The Trans-Mississippi West, 1803 to the Present. Cr. 3. Mr. Wallace.
 4331. History of Russia. Cr. 3. Mr. Eaves.
 4334. The French Revolution and Napoleon. Cr. 3. Mr. Pearce.
 4371. The Teaching of History in the High School. Cr. 3. Mr. Eaves.

For Graduates

532. Seminar in American History. Cr. 3. Mr. Graves.

5335. History for Elementary Teachers. Cr. 3. Mr. Pearce.
 631, 632. Master's Thesis. Cr. 6. Staff.
 731, 732. Doctoral Research. Cr. 6. Staff.
 831, 832. Doctoral Dissertation. Cr. 6. Staff.

ANTHROPOLOGY

For Undergraduates and Graduates

- 433, 434. Southwestern Archaeology. A field course: excavations near Taos, New Mexico. Cr. 6. Mr. Wendorf.

SOCIOLOGY

For Undergraduates

233. Current Social Problems. Cr. 3. Mr. Crawford.

For Undergraduates and Graduates

337. Social Organization and Movement. Cr. 3. Mr. Crawford.

For Graduates

532. Research Methods in Sociology. Cr. 3. Staff.
 631, 632. Master's Thesis. Cr. 6. Staff.

Second Term

HISTORY

For Undergraduates

232. Economic, Political and Social History of the United States Since 1865. Cr. 3. Staff.
 235. Survey of Texas History. Cr. 3. Mr. McKay.
 3322. The American Heritage, Since 1865. Cr. 3. Staff.

For Undergraduates and Graduates

4324. Mexico Since Independence. Cr. 3. Mr. Vigness.
 4343. Recent Texas. Cr. 3. Mr. McKay.
 4352. History of Canada. Cr. 3. Mr. Kinchen.

For Graduates

- 631, 632. Thesis. Cr. 6. Staff.
 731, 732. Doctoral Research. Cr. 6. Staff.
 831, 832. Doctoral Dissertation. Cr. 6. Staff.

SOCIOLOGY

For Undergraduates

230. Introduction to Sociology. Cr. 3. Miss Smith.

For Undergraduates and Graduates

333. American Minority Problems. Cr. 3. Miss Smith.

For Graduates

- 631, 632. Thesis. Cr. 6. Staff.

JOURNALISM

W. E. Garets, Head

First Term

For Undergraduates and Graduates

432. High School Publications. Cr. 3. Mr. Garets.

MATHEMATICS and ASTRONOMY

Emmett Hazlewood, Head

*First Term***For Undergraduates**

- 031. Intermediate Algebra. Cr. 3. (For students deficient in high school algebra.) Staff.
- 130. Algebra. Cr. 3. Staff.
- 131. Trigonometry. Cr. 3. Staff.
- 132. Analytic Geometry. Cr. 3. Mr. Fuller, Mrs. Roberts.
- 133. Algebra. Cr. 3. Mr. Heineman.
- 138. Mathematics of Finance. Cr. 3. Miss May.
- 231. Differential Calculus. Cr. 3. Mr. Wenjen, Mr. Morton.
- 232. Integral Calculus. Cr. 3. Mr. Hazlewood, Mr. Wenjen.

For Undergraduates and Graduates

- 331. Applications of Calculus. Cr. 3. Mr. Hazlewood, Mrs. Roberts.
- 332. Elementary Differential Equations. Cr. 3. Mr. Morton.
- 334. History of Mathematics. Cr. 3. Mr. Perel.
- 436. Introduction to Finite Groups. Cr. 3. Mr. Heineman.

For Graduates

- 5312. Functions of a Complex Variable. Cr. 3. Mr. Fuller.
- 631-632. Master's Thesis. Cr. 3 each. Staff.

Second Term

Robert M. Parker, Acting Head

For Undergraduates

- 130. Algebra. Cr. 3. Staff.
- 131. Trigonometry. Cr. 3. Miss McGlothlin, Miss Sorenson.
- 132. Analytic Geometry. Cr. 3. Mr. Sparks, Mr. Woodward.
- 133. Algebra. Cr. 3. Mr. Miles, Miss Sorenson.
- 138. Mathematics of Finance. Cr. 3. Mr. Smith.
- 231. Differential Calculus. Cr. 3. Mr. Underwood, Mr. Miles.
- 232. Integral Calculus. Cr. 3. Mr. Riggs, Mr. Parker.

For Undergraduates and Graduates

- 331. Applications of Calculus. Cr. 3. Mr. Parker.
- 332. Differential Equations. Cr. 3. Mr. Woodward.
- 339. Statistical Methods. Cr. 3. Mr. Riggs.
- 4311. Extended Analytic Geometry. Cr. 3. Mr. Underwood.

For Graduates

- 5313. Functions of a Complex Variable. Cr. 3. Mr. Sparks.
- 631-632. Master's Thesis. Cr. 3 each. Staff.

MUSIC

Gene Hemmle, Head

*First Term***APPLIED MUSIC****For Undergraduates****Private Instruction**

- 115, 116, 215, 216, 315, 316. Applied Music. Voice or Piano. Cr. 1 each. $\frac{1}{2}$ to 1 lec. hr., $7\frac{1}{2}$ prac. hrs. each. Staff.
025, 026, 125, 126. Applied Music. Voice or Piano. Cr. 2 each. 1 lec. hr., 15 to 21 prac. hrs. each. Staff.
225, 226, 235, 236. Applied Music. Voice or Piano. Cr. 2 each. 1 lec. hr., 15 to 21 prac. hrs. each. Staff.
325, 326, 345, 346. Applied Music. Voice or Piano. Cr. 2-3 each. 1 lec. hr., 15 to 21 prac. hrs. each. Staff.

For Undergraduates and Graduates

- 425, 426, 435, 436, 445, 446. Applied Music. Voice or Piano. Cr. 2-4 each. 15 to 21 prac. hrs. each. Staff.

MUSIC LITERATURE**For Undergraduates and Graduates**

4351. Music in the General Culture. Cr. 3. Mr. Hemmle.

MUSIC EDUCATION**For Undergraduates**

231. Fundamentals of Music for Elementary Classroom Teacher. Cr. 3. Mr. Elliott.

For Graduates

532. Choral Music Workshop. Cr. 3. Mr. Elliott.

MUSIC THEORY**For Undergraduates and Graduates**

427. Instrumentation. Cr. 2. Mr. McCarty.

*Second Term***APPLIED MUSIC****For Undergraduates****Private Instruction**

- 115, 116, 215, 216, 315, 316. Applied Music. Voice or Piano. Cr. 1 each. $\frac{1}{2}$ to 1 lec. hr., $7\frac{1}{2}$ prac. hrs. each. Staff.
025, 026, 125, 126. Applied Music. Voice or Piano. Cr. 2 each, 1 lec. hr., 15 to 21 prac. hrs. each. Staff.
225, 226, 235, 236. Applied Music. Voice or Piano. Cr. 2 each, 1 lec. hr., 15 to 21 prac. hrs. each. Staff.
325, 326, 345, 346. Applied Music. Voice or Piano. Cr. 2-3 each, 1 lec. hr., 15 to 21 prac. hrs. each. Staff.

For Undergraduates and Graduates

- 425, 426, 435, 436, 445, 446. Applied Music. Voice or Piano. Cr. 2-4 each. 15 to 21 prac. hrs. each. Staff.

MUSIC EDUCATION**For Undergraduates**

232. Music for Classroom Teachers. Cr. 3. Mr. Hemmle.

For Graduates

530. Seminar in Music. Cr. 3. Mr. Hemmle.

PHYSICS

C. C. Schmidt, Head

*First Term***For Undergraduates**

131. Introductory Physics. Cr. 3. 9 lec. hrs. Mr. Schmidt.
 141. General Physics. Cr. 4. 9 lec. hrs. Mr. Schmidt.
 215. Physical Measurements. Cr. 1. 9 lab. hrs. Mr. Basford.
 216. Physical Measurements. Cr. 1. 9 lab. hrs. Mr. Basford.
 235. Engineering Physics. Cr. 3. 9 lec. hrs. Mr. George.
 236. Engineering Physics. Cr. 3. 9 lec. hrs. Mr. George.
For Undergraduates and Graduates
 431. High School Physics Teaching. Cr. 3. 9 lec. hrs. Mr. Basford.

Second Term

W. W. Merrymon, Acting Head

For Undergraduates

131. Introductory Physics. Cr. 3. 9 lec. hrs. Mr. Merrymon.
 142. General Physics. Cr. 4. 9 lec. hrs., 9 lab. hrs. Mr. Merrymon.
 216. Physical Measurements. Cr. 1. 9 lab. hrs. Mr. Severance.
 236. Engineering Physics. Cr. 3. 9 lec. hrs. Mr. Severance.

PSYCHOLOGY

Sylvan J. Kaplan, Head

*First Term***For Undergraduates**

331. Child Psychology. Cr. 3. Mr. Kaplan.
 333. Statistical Methods. Cr. 3. Mr. Kuntz.

For Undergraduates and Graduates

431. Tests and Measurements. Cr. 3. 4 lab. hrs. Mr. Kuntz.
 436. Personality Development. Cr. 3. Mr. Greenberg.
 4313. Counseling and Guidance. Cr. 3. Mr. Barnett.
 4326. Psychology of the Blind. Cr. 3. Mr. Greenberg.

For Graduates

532. Problems in Psychology. Cr. 3. Staff.
 539. Occupational Information. Cr. 3. Mr. Anderson.

5316. Introduction to Adjustment Counseling. Cr. 3. Mr. Anderson.
 631-2. Master's Thesis. Cr. 6. Staff.
 731-2. Doctoral Research. Cr. 3 each. Staff.
 831-2. Doctor's Dissertation. Cr. 6. Staff.

Second Term

For Undergraduates

130. Introduction to Psychology. Cr. 3. Mr. Melching.
 335. Adolescent Psychology. Cr. 3. Mr. Melching.

For Undergraduates and Graduates

4317. The Psychology of Living. Cr. 3. Mr. McCutchan.
 4325. Survey of Services and Facilities for the Blind. Cr. 3. Mr. Greenberg.

For Graduates

532. Problems in Psychology. Cr. 3. Staff.
 5312. Practicum in Occupational Information. Cr. 3. Mr. Anderson.
 5317. Techniques of Counseling and Guidance. Cr. 3. Mr. Anderson.
 631-2. Master's Thesis. Cr. 6. Staff.
 731-2. Doctoral Research. Cr. 3 each. Staff.
 831-2. Doctor's Dissertation. Cr. 6. Staff.

SPEECH

P. Merville Larson, Head

First Term

For Undergraduates

239. Speech Development for Teacher Competence. Cr. 3. Mr. Larson.
 319. Theater Activities. Cr. 1. Mr. Thurman.
 338. Business and Professional Speaking. Cr. 3. Mr. Thurman.

For Undergraduates and Graduates

4318. Speech Correction Methods. Cr. 3. Miss Lindell.
 4321 and 4322. Supervised Clinical Practices in Speech Correction. Cr. 3. Miss Lindell.
 4325. Directing School Speech Activities. Cr. 3. Mr. Larson and Mr. Thurman.

For Graduates

531. Studies and Problems in Speech. Cr. 3. Staff.
 631. Master's Thesis. Cr. 3. Staff.

Second Term

For Undergraduates

233. Voice and Diction. Cr. 3. Mr. Larson.
 338. Business and Professional Speaking. Cr. 3. Mr. Brennan.
 4324. American Theater Tour. Cr. 3. Mr. Schulz. (Aug. 15-Sept. 2.)

For Graduates

- 531. Studies and Problems in Speech. Cr. 3. Staff.
- 5335. Basic Speech for Elementary Teachers. Cr. 3. Mr. Larson.
- 632. Master's Thesis. Cr. 3. Staff.

BIBLE*First Term*

- 132. Survey of New Testament. Cr. 3. Mr. Cobbs, Mr. Music.
- 211. The Bible, Its Origin and Growth. Cr. 1. Mr. Cobbs.
- 213. Book of James. Cr. 1. Mr. Music.
- 221. Book of John. Cr. 2. Mr. Music.

SCHOOL OF BUSINESS ADMINISTRATION

The 1957 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 1957 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 and FINANCE

Reginald Rushing, Head

First Term

ACCOUNTING

For Undergraduates

- 244. Elementary Accounting II. Cr. 4. 9 lec. hrs., 9 lab. hrs. Mrs. Eaves.
- 245. Elementary Accounting II. Cr. 4. 9 lec. hrs., 9 lab. hrs. Mrs. Eaves.
- 331. Managerial Accounting. Cr. 3. Mr. Roberts.
- 334. Intermediate Accounting I. Cr. 3. Mr. Taylor.
- 336. Principles of Cost Accounting. Cr. 3. Mr. Roberts.

For Undergraduates and Graduates

- 434. Advanced Accounting I. Cr. 3. Mr. Rushing.
- 437. Principles of Auditing. Cr. 3. Mr. Taylor.

For Graduates

- 533. Current Accounting Theory. Cr. 3. Mr. Rushing.
- 631-632. Thesis. Cr. 6. Staff.

FINANCE

For Undergraduates

- 231. Personal Finance. Cr. 3. Mr. Abel.
- 331. Corporation Finance. Cr. 3. Mr. Rouse.
- 334. Credits and Collections. Cr. 3. Mr. Rouse.

For Undergraduates and Graduates

- 437. Casualty Insurance Co. Cr. 3. Mr. Abel.

BUSINESS LAW

For Undergraduates

- 338. Business Law I. Cr. 3. Mr. Dale.
- 3313. Oil and Gas Law. Cr. 3. Mr. Stevens.

Second Term

ACCOUNTING

For Undergraduates

245. Elementary Accounting II. Cr. 4. 9 lec. hrs., 9 lab. hrs. Mr. Roberts.
 322. Payroll Accounting. Cr. 2. Mr. Roberts.
 335. Intermediate Accounting II. Cr. 3. Mr. Taylor.

For Undergraduates and Graduates

430. Income Tax Accounting. Cr. 3. Mr. Rushing.
 435. Advanced Accounting II. Cr. 3. Mr. Rushing.

For Graduates

531. Controllership. Cr. 3. Mr. Taylor.
 631-2. Thesis. Cr. 6. Staff.

FINANCE

For Undergraduates

331. Corporation Finance. Cr. 3. Mr. Rouse.

For Undergraduates and Graduates

434. Investments. Cr. 3. Mr. Rouse.

BUSINESS LAW

For Undergraduates

338. Business Law I. Cr. 3. Mr. Dale.
 339. Business Law II. Cr. 3. Mr. Dale.

BUSINESS EDUCATION
 and SECRETARIAL ADMINISTRATION

William R. Pasewark, Acting Head

First Term

BUSINESS EDUCATION

For Graduates

531. Workshop for Business Teachers. Cr. 3. Mr. Pasewark.
 (Refer to section on workshops.)
 533. Guidance in Business Education. Cr. 3. Mr. Pasewark.

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

Vernon T. Clover, Acting Head

*First Term***For Undergraduates**

- 133. The Development of American Business and Economic Institutions I. Cr. 3. Mr. Sampson.
- 133. The Development of American Business and Economic Institutions I. Cr. 3. Mr. Sampson.
- 231. Principles of Economics I. Cr. 3. Mr. Levy.
- 231. Principles of Economics I. Cr. 3. Mr. Levy.
- 326. Research in Economics and Business. Cr. 2. Mr. Clover.

For Undergraduates and Graduates

- 437. Current Economic Problems. Cr. 3. Mr. Walker.

For Graduates

- 531. Research. Cr. 3. Mr. Clover.
- 532. Readings. Cr. 3. Mr. Clover.

*Second Term***For Undergraduates**

- 134. The Development of American Business and Economic Institutions II. Cr. 3. Mr. Anderson.
- 232. Principles of Economics II. Cr. 3. Mr. Anderson.
- 232. Principles of Economics II. Cr. 3. Mr. Witt.

For Graduates

- 4335. Human Geography. Cr. 3. Mr. Clover.
- 533. Readings. Cr. 3. Mr. Clover.

MANAGEMENT

Wm. G. Cain, Acting Head

*First Term***For Undergraduates**

- 331. Industrial Management. Cr. 3. Mr. Cain.
- 334. Personnel Administration. Cr. 3. Mr. Cain.

For Graduates

- 631. Thesis. Cr. 3. Mr. Cain.

Second Term

F. L. Mize, Head

For Undergraduates

- 331. Industrial Management. Cr. 3. Mr. Mize.

For Graduates

- 534. Seminar. Cr. 3. Mr. Mize.
- 632. Thesis. Cr. 3. Mr. Mize.

MARKETING

Howard E. Golden, Acting Head

*First Term***For Undergraduates**

- 332. Principles of Marketing. Cr. 3. Mrs. McKee.
- 339. Principles of Salesmanship. Cr. 3. Mrs. McKee.
- 346. Introduction to Business Statistics. Cr. 4. Mr. Golden.

For Graduates

- 534. Seminar. Cr. 3. Mr. Golden.

*Second Term***For Undergraduates**

- 321. Public Relations. Cr. 2. Mrs. McKee.
- 346. Introduction to Business Statistics. Cr. 4. Mrs. McKee.

For Undergraduates and Graduates

- 433. Marketing Problems. Cr. 3. Mr. Golden.
- 439. Sales Management. Cr. 3. Mr. Golden.

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 and sophomore 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 deficiencies.

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

Any freshman who has attended during the 1956-57 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

ARCHITECTURE

For Undergraduates

231. Architectural Design Grade I. Cr. 3. 27 lab. hrs. Mr. Mc-Minn.

ALLIED ARTS

For Undergraduates

238. Pottery. Cr. 3. 27 lab. hrs. Mr. Tracy.
239. Pottery. Cr. 3. 27 lab. hrs. Mr. Tracy.

For Undergraduates and Graduates

421. Art Workshop. Cr. 2. 18 lab. hrs. Mr. Tracy.

Second Term

ARCHITECTURE

For Undergraduates

142. Principles of Design. Cr. 4. 3 lec. hrs., 27 lab. hrs. Mr. Parkinson.
232. Architectural Design. Grade I. Cr. 3. 27 lab. hrs. Mr. Bradshaw.

ALLIED ARTS**For Undergraduates**

126. Introduction to Lettering. Cr. 2. 18 lab. hrs. Mr. Parkinson.
 127. Introduction to Lettering. Cr. 2. 18 lab. hrs. Mr. Parkinson.

For Graduates

5335. Arts in Elementary Education. Cr. 3. 3 lec. hrs., 15 lab. hrs. Dr. Sasser.

CIVIL ENGINEERING

James H. Murdough, Head

*First Term***For Undergraduates**

231. Plane Surveying. Cr. 3. 6 lec. hrs., 9 lab. hrs. Mr. Decker.
 233. Statics. Cr. 3. Mr. Decker, Mr. Whetstone.
 332. Kinematics and Kinetics. Cr. 3. Mr. Murdough, Mr. Overby.
 333. Strength of Materials. Cr. 3. Mr. Murdough, Mr. Overby.
 339. Fluid Mechanics. Cr. 3. Mr. Whetstone.

*Second Term***For Undergraduates**

231. Plane Surveying. Cr. 3. 6 lec. hrs., 9 lab. hrs. Mr. Decker.
 233. Statics. Cr. 3. Mr. Decker, Mr. Whetstone.
 332. Kinematics and Kinetics. Cr. 3. Mr. Overby, Mr. Murdough.
 333. Strength of Materials. Cr. 3. Mr. Overby, Mr. Murdough.
 339. Fluid Mechanics. Cr. 3. Mr. Whetstone.

ELECTRICAL ENGINEERING

Charles V. Bullen, Head

*First Term***For Undergraduates**

221. Electrical Engineering Laboratory. Cr. 2. 18 lab. hrs. Mr. Bullen.
 231. Principles of Electrical Engineering. Cr. 3. Mr. Bullen.
 318. Electrical Engineering Laboratory. Cr. 1. 9 lab. hrs. Mr. Hartsfield, Mr. Price.
 338. Elements of Electrical Engineering. Cr. 3. Mr. Hartsfield.

For Undergraduates and Graduates

312. Alternating Current Circuits Laboratory. Cr. 1. 9 lab. hrs. Mr. Houston.
 321. Static Electric and Magnetic Fields. Cr. 2. Mr. Stenis.
 337. *Electronics. Mr. Stenis.
 332. Alternating Current Circuits. Cr. 3. Mr. Houston.
 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.
 *First hour given this term.

Second Term

For Undergraduates

225. Direct Current Machines Laboratory. Cr. 2. 18 lab. hrs. Mr.
 Price, Mr. Bullen.
 235. Principles of Direct Current Machinery. Cr. 3. Mr. Bullen.
 319. Electrical Engineering Laboratory. Cr. 1. 9 lab. hrs. Mr.
 Hartsfield, Mr. Price.
 339. Elements of Electrical Engineering. Cr. 3. Mr. Hartsfield.

For Undergraduates and Graduates

317. Electronics Laboratory. Cr. 1. 9 lab. hrs. Mr. Stenis.
 337. *Electronics. Cr. 3. Mr. Stenis.
 313. Alternating Current Circuits Laboratory. Cr. 1. 9 lab. hrs.
 Mr. Houston.
 333. Alternating Current Circuits. Cr. 3. Mr. Houston, Mr. Stenis.
 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.
 *Last two hours given this term.

INDUSTRIAL ENGINEERING and ENGINEERING DRAWING

J. R. Bradford, Acting Head

First Term

ENGINEERING DRAWING

131. Engineering Drawing. Cr. 3. 18 lab. hrs. Staff.
 132. Descriptive Geometry. Cr. 3. 18 lab. hrs. Staff.

Second Term

ENGINEERING DRAWING

131. Engineering Drawing. Cr. 3. 18 lab. hrs. Staff.
 132. Descriptive Geometry. Cr. 3. 18 lab. hrs. Staff.

MECHANICAL ENGINEERING

L. J. Powers, Head

First Term

For Undergraduates

320. Metals Fabrication. Cr. 2. 18 lab. hrs. Mr. Martin.

330. Engineering Thermodynamics. Cr. 3. Mr. Monasch, Mr. Davenport.
335. Elements of Heat Engineering. Cr. 3. Mr. Monasch.

For Undergraduates and Graduates

421. Heat Power Laboratory. Cr. 2. 18 lab. hrs. Mr. Helmers.
433. Combustion Engines. Cr. 3. Mr. Davenport.
435. Fluid Dynamics. Cr. 3. Mr. Helmers.

Second Term

For Undergraduates

237. Metallurgy. Cr. 3. Mr. Martin.
321. Metals Fabrication. Cr. 2. 18 lab. hrs. Mr. Martin.
330. Engineering Thermodynamics. Cr. 3. Mr. Godeke.
335. Elements of Heat Engineering. Cr. 3. Mr. Davenport.

For Undergraduates and Graduates

425. Heat Transfer. Cr. 2. Mr. Helmers.
431. Heat Power Laboratory. Cr. 3. 18 lab. hrs. Mr. Helmers.

PETROLEUM ENGINEERING

W. L. Ducker, Head

First Term

For Undergraduates and Graduates

412. Engineering Seminar. Cr. 1. Mr. Blum.
420. Petroleum Engineering Problems. Cr. 2. Mr. Ducker.
430. Natural Gas Problems. Cr. 3. Mr. Ducker.

Second Term

For Undergraduates and Graduates

412. Engineering Seminar. Cr. 1. Mr. Blum.
420. Petroleum Engineering Problems. Cr. 2. Mr. Ducker.
430. Natural Gas Problems. Cr. 3. Mr. Ducker.

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.

A student may enroll in only one of these short courses or may combine several for a full schedule.

Detailed information is given in departmental listings in Applied Arts, Child Development and Family Relations, Clothing and Textiles, Food and Nutrition, Home Economics Education, and Home Management. Special workshop courses are described a little more fully in the workshop section of this bulletin.

APPLIED ARTS

Bill Clarence Lockhart, Acting Head.

*First Term***For Undergraduates**

228. Appreciation of Art Today. Cr. 2. Mr. Randall, Tour Director.
Art Tour of Eastern United States. (June 4-21. See Page 24
for details.
331. Interior Design. Cr. 3. Mrs. Beitler.
337. Art in Elementary Education. Cr. 3. Mr. Lockhart.

For Graduates

5335. Theory and Practice of Art for Elementary Teachers. Cr. 3.
Mr. Lockhart.

*Second Term***For Undergraduates**

232. Crafts Survey. Cr. 3. Mrs. Beitler.
338. Art in Elementary Education. Cr. 3. Mr. Lockhart.

For Graduates

531. Special Problems. Cr. 3. Mr. Lockhart.

CHILD DEVELOPMENT and FAMILY RELATIONS

Winnifred Gifford, Charlotte Camp, Acting Head

*First Term***For Undergraduates**

331. Early Childhood. Cr. 3. Mrs. Gifford.

*Second Term***For Undergraduates**

331. Early Childhood. Cr. 3. Mrs. Camp.

CLOTHING and TEXTILES

Gene Shelden, Head

*First Term***For Undergraduates**

232. Dress Design and Dressmaker Tailoring. Cr. 3. Mrs. Kinchen.

For Graduates

- 511-4. New Developments in the Textiles Field. Cr. 1. (July 1-6.) Miss Shelden.
511-1. Basic Techniques in the Newer Methods of Clothing Construction. Cr. 1. (July 8-12.) Miss Shelden.

*Second Term***For Undergraduates**

335. Weaving and History of Textiles. Cr. 3. Mrs. Johnston.

For Undergraduates and Graduates

435. Home Furnishings. Cr. 3. (July 18-Aug. 6.) Mrs. Kinchen.

For Graduates

531. Special Problems in Clothing and Textiles. Cr. 3. (Aug. 7-28.) Miss Shelden.

FOOD and NUTRITION

Mina Lamb, Head

*First Term***For Undergraduates**

135. Food Selection and Preparation (For Nurses). Cr. 3. Miss McCarty.

For Undergraduates and Graduates

411. Nutrition and the School Lunch. Cr. 1. (July 8-12.) Miss Tinsley.

For Graduates

631. Thesis. Cr. 3. Miss Tinsley, Mrs. Lamb.

*Second Term***For Graduates**

535. Principles and Applications of Nutrition for Elementary Teachers. Cr. 3. Miss Tinsley.
632. Thesis. Cr. 3. Miss Tinsley, Mrs. Lamb.

HOME ECONOMICS EDUCATION

Vivian Adams, Head

*First Term***For Undergraduates**

331. Methods of Teaching Home Economics. Cr. 3. Miss Nesbitt.

For Undergraduates and Graduates

413. Instructor Training in Home Care of the Sick. Cr. 1. (July 11-17.) Mrs. Adams and Red Cross Field Staff.

For Graduates

534. Techniques of Research in Home Economics. Cr. 3. (June 29-July 17.) Mrs. Adams.
631-632. Thesis. Cr. 6. Mrs. Adams and Staff.

*Second Term***For Undergraduates and Graduates**

- 414-1. Future Homemakers of America Workshop. Exploring FHA Contributions to Balanced Homemaking Programs. Cr. 1. (July 18-24.) Miss Tinsley and Staff from Federal and State Offices.
414-2. Future Homemakers of America Workshop. Adapting National and State Programs of work for Local FHA Chapters. Cr. 1. (July 25-31.) Miss Tinsley and Staff from Federal and State offices.
532. Curriculum Development in Home Economics. Cr. 3. (Aug. 1-24.) Miss Nesbitt.
631-632. Thesis. Cr. 6. Miss Nesbitt and Staff.

HOME MANAGEMENT

Willa Vaughn Tinsley, Head

*First Term***For Undergraduates and Graduates**

432. Home Management Residence. Cr. 3. Miss Wolfe.
432. Home Management (Non Residence). Cr. 3. Miss Drew.
433. Household Equipment. Cr. 3. Miss Drew.

*Second Term***For Undergraduates and Graduates**

432. Home Management Residence. Cr. 3. Miss Wolfe.

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