

**BULLETIN  
OF  
TEXAS TECHNOLOGICAL COLLEGE**

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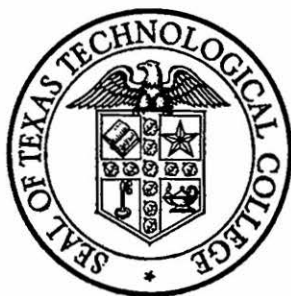
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*Summer School Catalog  
1967*



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# College Calendar

## Summer Session, 1967

### First Term

- June 6            Tuesday. First term begins.  
10 A.M., residence halls open for occupancy.  
First meal, breakfast, Wednesday, June 7.
- June 7-8        Wednesday-Thursday. Registration.
- June 9           Friday. 7:20 A.M., classes begin.
- June 10          Saturday. Day of instruction for all classes.
- June 22          Thursday. Grade of "W" will be given for all courses dropped on or before this date.
- June 24          Saturday. Day of instruction for all classes.
- July 3           Monday. No classes.
- July 4           Tuesday. Independence Day—College holiday; no classes
- July 6           Thursday. Last day to drop a course.
- July 8           Saturday. Day of instruction for all classes.
- July 11          Tuesday. Last day to file at Placement Office the Personnel Information Forms and photographs by students planning to graduate in August.  
Last day for first-term students to pay \$5 graduation fee at Comptroller's Office.  
Last day to secure refund of \$5 graduation fee by those who have previously deposited same and who have canceled plans to graduate in August.  
Last day to file with student's dean the statement of intention to graduate in August.
- July 13          Thursday. Final examinations.
- July 14          Friday. Final examinations.
- July 15          Saturday. Students without room reservations for second term must vacate residence hall rooms by 10 A.M.  
First term ends.
- July 17          Monday. 9 A.M., grades and absence reports for first term due in Office of the Registrar.

## Second Term

- July 16 Sunday. 10 A.M., residence halls open to new occupants.
- July 17 Monday. Second term begins.
- July 17-18 Monday-Tuesday. Registration.
- July 19 Wednesday. 7:20 A.M., classes begin.  
Last day for persons graduating in August to order academic regalia and invitations at College Bookstore.
- July 22 Saturday. Day of instruction for all classes.
- August 1 Tuesday. The grade of "W" will be given for courses dropped on or before this date.  
Last day to pay \$5 graduation fee for students enrolled in second term only.
- August 10 Thursday. Last day for degree candidates to complete work for removal of grades of "I" and "P".  
Last day to complete correspondence courses.  
Last day to submit requests for graduation *in absentia*.  
Last day for graduating students enrolled in second term only to file in Placement Office the Personnel Information Forms and photographs.  
Last day to drop a course.
- August 11 Friday. Last day to submit to the Graduate Dean the final draft of theses and dissertations and to pay binding fee.
- August 19 Saturday. Day of instruction for all classes.
- August 21-22 Monday-Tuesday. Final examinations. Residence halls dining rooms close with serving of evening meal on Tuesday.
- August 23 Wednesday. 10 A.M., residence halls close. Degree candidates may occupy rooms until 10 A.M., Sunday, August 27. 4 P.M., final grades and absence reports for degree candidates due in Registrar's Office.
- August 25 Friday. 3 P.M., each academic dean will send to the Registrar's Office the final and official list of graduates in his school.
- August 26 Saturday. 8:30 A.M., Commencement rehearsal for all degree candidates.  
By 12 Noon degree candidates must obtain academic regalia from College Bookstore.  
7:15 P.M., Commencement exercises.  
Summer session ends.



- August 27      Sunday. 10 A.M., residence halls close.
- August 28      Monday. 12 Noon, grades and absence reports for second term due in Registrar's Office.

## **Fall Session, 1967**

- Sept. 15      Friday. Fall semester begins. General faculty meeting.

## 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 at an elevation of 3,256 feet.

The city has a permanent population of approximately 160,000. Excellent churches, schools, hotels, and shopping centers are available. Two railway systems, an interstate bus line, an excellent highway system, and three airlines operate through the city.

#### History

Texas Technological College was established in 1923 and began instruction in 1925 with an enrollment of 910; the 1966 full enrollment was over 17,000, and the summer session enrollment in 1966 was 8,387.

The first president was Paul Whitfield Horn (1925-1932). He was followed by Bradford Knapp (1932-1938), Clifford B. Jones (1938-1944), President Emeritus, 1944- ), William Marvin Whyburn (1944-1948), Dossie M. Wiggins (1948-1952), Edward N. Jones (1952-1959), R. C. Goodwin (1959-1966), and Grover E. Murray (1966- ).

#### 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 regulation and direction of academic affairs are delegated by the Board of Directors to the President, administrative officers, and faculty.

#### Accreditation

Texas Technological College is a member of the Southern Association of Colleges and Schools.

#### Academic Divisions

Within the College are five undergraduate schools—Agriculture, Arts and Sciences, Business Administration, Engineering, and Home Economics—and the Graduate School. The new schools of Law and Education will open in the Fall of 1967.

#### Graduate School

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

Major work leading to the appropriate master's degree is offered in the following subjects: accounting, agricultural economics, agricultural education, animal breeding, animal nutrition, applied music, botany, business education, chemical engineering, chemistry, civil engineering, clothing and textiles, crop science, dairy industry, economics, education, electrical engineering, English, entomology, finance, food and nu-

trition, French, geology, German, government, history, home economics education, horticulture, industrial engineering, management, marketing, mathematics, meat science, mechanical engineering, microbiology, music education, park administration, physical education, physics, psychology, range science, sociology, soil science, Spanish, speech, and zoology. Minor work for a master's degree is available in several additional departments.

Major work leading to the Degree of Doctor of Philosophy is offered in biology, botany, chemical engineering, chemistry, civil engineering, electrical engineering, English, geology, government, history, industrial engineering, mathematics, mechanical engineering, microbiology, physics, psychology, and zoology. The Doctor of Philosophy Degree is also offered in engineering on an interdisciplinary basis. The Degree of Doctor of Education is offered with a major in Education.

## **Special Facilities and Programs**

### **College Bookstore**

The College Bookstore located on the campus is a modern self-service facility and 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.

When possible to secure, the Bookstore handles second-hand books and purchases textbooks back from students who desire to dispose of them.

All profits derived from the operation of the College Bookstore go to student welfare and recreation.

### **Division of Extension**

Approximately 150 college and 50 high school courses, including both credit and noncredit courses, are offered by correspondence and extension class work for those who are unable to attend classes in residence. Credit courses may count on degrees and teacher's certificates (or for high school credit and college entrance). A list of available courses may be secured upon request from the Division of Extension, Texas Technological College.

### **Library**

The collections of the College Library are intended to meet the research needs of faculty and students in support of the academic program and are housed in an air-conditioned building completed in 1962. Holdings now total nearly 850,000 items, including books, periodicals, government documents, and other materials. An open-shelf arrangement makes the holdings readily available to students and faculty alike. To improve its services the Library maintains readers for microfilm and microprint, provides a rapid copy service, and has individual study rooms for faculty members engaged in research. Also, individual study tables are conveniently distributed throughout the stacks. There is space in the stacks and the reserve and reference rooms for a total of 1,009 readers. The Library is designated as one of the two Regional Depositories for U.S. Government Documents in Texas and as a depository of the Atomic Energy Commission. Holdings of standard classics were recently enriched by the purchase of the entire 26,000

volume stock of a bookstore in New York City, partially financed by the Friends of the Library of Texas Technological College. Although the Library serves principally the faculty and students of the College, it is often able to supplement the services of other libraries in the area.

The Library is staffed by 25 professional librarians and 31 sub-professionals who provide service during the following hours: 8 A.M. to 12 Midnight, Monday through Friday; 8 A.M. to 5 P.M. Saturday; 2 P.M. to Midnight Sunday. Closed holidays. Summer terms: 7 A.M. to 10 P.M. Monday through Friday; 7 A.M. to 5 P.M. Saturday. Closed Sundays and holidays.

### **Men's Intramural Program**

The Department of Health, Physical Education, and Recreation for Men offers a varied program of physical activities during each semester of summer school. All students, graduate and undergraduate, are eligible to participate. Participants are urged to sign up during the first week of the first term. Play normally starts during the second week of the first term. All play starts with the first term and runs throughout both the first and second terms. The activities offered include table tennis, golf, horseshoes, spaceball, tennis, badminton, handball, and paddleball.

Intramural headquarters are located in the Intramural Gym directly south of the football stadium.

### **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 also offers placement service to alumni and ex-students.

To those students who find it necessary to earn a portion of their expenses while attending college, the Placement Service is able to give assistance 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 concerning the activities of the placement office may be received from the Director of the Placement Service, Room 252, Electrical Engineering Building, Texas Technological College.

### **Recreation**

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

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

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

## Reserve Officers Training Corps

Requirements for enrollment and details of the Army and Air Force ROTC programs can be obtained from the office of the Professor of Military Science, Room 12, Social Science Building, or the Professor of Aerospace Studies, Room 19, Social Science Building.

A complete description of the Army and Air Force ROTC programs is contained in the Texas Technological College *General Catalog*.

No Army or Air Force ROTC courses will be offered during the summer.

## Student Health Center

The Student Health Center benefits are available to students regularly enrolled in summer school. The Student Health Center is composed of an out-patient Clinic and a 32-bed Hospital. It provides accommodations for those students ill enough to require constant supervision and not in such physical condition to require surgery or the services of specialists. Students judged to be in need of hospital care by a college physician may be admitted to the Hospital, where they are under the constant supervision of a physician and a registered nurse. Neither the out-patient Clinic nor the Hospital is financially able to give students unlimited medical service. The cost of special or expensive medications, treatments, X-ray examinations, and special laboratory tests must be paid for by the student. Except for the above services, no charge is made for Hospital care up to a maximum of three and one-half days each six weeks 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 Hospital. In case the Hospital is filled to capacity, the College is not under obligation to provide students with hospital services elsewhere.

The Student Health Center will be open to all students for consultation with the staff at regular, announced hours. Students are strongly encouraged to visit the Student Health Center out-patient Clinic during regular hours. Emergency cases, however, will be treated at any hour, day or night.

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

## Teacher Certification

All individuals who enroll for the first time in a program leading to a certificate to teach in any subject on any level in the elementary and secondary schools should see the Director of Teacher Education and Certification in the Administration Building for official forms and directions for executing a teacher certificate plan.

## University Counseling Center

The Counseling Center has as its purpose aiding students at the College in deciding on a major and an occupational objective, and in meeting problems of a personal nature. Under the auspices of the Center, a reading-study improvement course is available to Texas Tech students. High school graduates who have declared their intention to attend the College are eligible for counseling as well as for the reading-study improvement course. The summer period has been found

to be an appropriate time to work out suitable educational and vocational goals, and to improve reading and study skills.

Students desiring counseling should call PO2-8811, Extension 4297.

### **West Texas Cooperative Audio-Visual Services**

The West Texas Cooperative Audio-Visual Services provide on-campus service for the schools and departments of Texas Technological College. Room 108 of the Social Science Building has been set aside for on-campus viewing of films. These services may be scheduled by calling phone number PO 3-5014 or contacting the audio-visual personnel in the Social Science Building, Room 20.

Film distribution from the College campus is currently reaching 82,000 students in the public schools. Schools of West Texas desiring to participate in the Cooperative Audio-Visual program may obtain further information by writing the Director of WTCAS, P.O. Box 4380, Texas Technological College, Lubbock, Texas 79409.

## **The Summer Session**

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

The 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 almost all of the basic freshman curricula.

**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 certification as teachers and administrators in the elementary and secondary schools. In addition, the graduate program provides opportunity for individuals to meet requirements for new certification regulations in teaching, supervision, curriculum, and administration, as well as for conversion of certificates. 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."

## **Academic Regulations**

### **Admission to Candidacy for Graduation**

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

dent's ordering of a diploma and making other plans for graduation will be entirely on his own responsibility.

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

### Summer School Commencement

A student who completes all work for any degree at the end of either term will have the degree conferred during the commencement program to be held the last day of the summer session. Summer Commencement is scheduled to be held on Saturday, Aug. 26.

### Class Work and Routine

**Student Load.** The normal load for a six-week summer 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 and orientation courses. 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.

Graduate students are limited to 6 hours in either term, or a total of 12 hours for the summer session.

**Auditing Classes.** Permission to audit classes may not be granted in case the classes are 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 in 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.

**Explanation of Course Numbers.** The numbers used for designating courses are uniform in all schools of the College. From left to right, the first digit indicates the college year in which the course is normally taken; the second digit shows the semester-hour value of the course; the last digit (or digits) is the departmental course number. To illustrate: English 131 is a freshman course with a credit value of 3 semester hours. See *General Catalog* for further explanation.

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

The student should consult the annual *General Catalog* for course descriptions and prerequisites.

### Other Academic Regulations

For regulations covering suspension, withdrawal from college, dropping courses, grades, and other matters, see the current *General Catalog*.

## Admission

The Dean of Admissions has charge of all matters pertaining to admission to any school of the College. Each new student is required



to file an application on a blank which may be secured from the Admissions Office, Administration Building, Room 162. In addition, regular students must submit complete high school transcripts and complete transcripts from all colleges previously attended. The new student is urged to send in credentials well in advance of registration date.

To enter the College as a freshman, an applicant takes the following steps:

1. Obtains an application for admission from the Dean of Admissions by applying in person, by mail, or by telephone.
2. Provides the Admissions Office with an official transcript of his high school record. The applicant must assume the responsibility for having his record forwarded to the Dean of Admissions.
3. Files a health data form. This form is to be completed and returned by a physician to the Dean of Admissions.
4. Furnishes scores on the Scholastic Aptitude Test of the College Entrance Examination Board.
5. Decides which school or curriculum he wishes to enter. A student needing advice or counseling may come to the campus before registration day and consult with the dean of his school.

When an applicant's file is complete, that is, after his completed application form and all necessary supporting transcripts and records have been received, the case will be evaluated. Normally, if time permits, the applicant will be notified of his acceptance or rejection before he reaches the campus.

6. Reports to the College Campus on the day indicated in the official College Calendar and in notices sent in reply to his application. All entering freshmen must report at the beginning of the freshman orientation period.

7. Pays fees on the days indicated for registration.

## **Freshman Preregistration Guidance and Orientation**

All entering freshmen are required to assemble at the College for a period of orientation prior to actual registration (see College Calendar.) This program has been developed to assist the student in selecting a program of study and to aid the faculty and administration in guiding him.

Along with other credentials in support of their applications for admission, beginning students are required to submit their scores earned on the College Entrance Examination Board Scholastic Aptitude Test.

Tests are supplied by the College Entrance Examination Board, Post Office Box 592, Princeton, New Jersey. High school counselors and principals usually secure these tests for those wishing to take them. It is the responsibility of the prospective student at Texas Technological College to take these tests during his senior year in high school. They may be taken at the College during the freshman orientation and testing period, but students who wait until then to take them will be delayed in registering.

## **Uniform Minimum Requirements for Admission**

Graduation from an accredited high school is the first entrance requirement for beginning freshmen. The following units are the uniform requirements for admission to the College:



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

## Removal of Deficiencies

A student who is admitted with deficiencies must remove them during his first two semesters of attendance at this College.

## Special Admission Requirements

For admission to the schools of Agriculture, Business Administration, and Home Economics there are no requirements beyond those listed above. For special programs in the School of Arts and Sciences and for entrance into the School of Engineering, see the annual *General Catalog* of the College.

## Admission of Out-of-State Students

An applicant for admission who did not graduate from a Texas high school and who is not a legal resident of Texas must meet the following minimum requirements:

1. Have been graduated from an accredited high school with at least the 15 units listed above under "Uniform Minimum Requirements for Admission."
2. Have ranked in the top half of his high school graduating class.

## Admission From Other Colleges and Universities

Undergraduate students who have attended another accredited college, who are in good standing there, and who are not under disciplinary or scholastic difficulty, may be accepted for admission to Texas Technological College if their performance at the other institution meets the standard at Texas Tech.

The student seeking admission from another college must present official transcripts of his entire academic record, both high school and college. His record must meet the minimum standards in one of the following categories:

A. If he originally enrolled for 12 or more semester hours during the last semester of attendance, and

1. Has registered for only one semester in college, he must have earned at least 6 semester hours of academic credit with grades of C or better in each course of the total 6 semester hours. (This does not mean a C average. One or two hour courses in Choir, Orientation, Band, Physical Education, ROTC, etc., are not counted for admission purposes to meet these requirements.)

2. Has registered for 2, 3, or 4 semesters, he must have earned at least 9 semester hours of academic credit with grades of C or better during his last semester in each course of the total 9 semester hours.

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\* One unit in general mathematics may be accepted as a substitute for one of the required units in mathematics toward entrance to the schools of Agriculture, Business Administration, and Home Economics, and for nonscience majors in Arts and Sciences. Courses falling under the description of arithmetic are not accepted as one of the uniform required units in mathematics.

3. Has registered for five or more semesters, he must have earned at least 12 semester hours of academic credit with grades of C or better during his last semester in each course of the total 12 semester hours.

B. If he originally registered for less than 12 semester hours during his last semester in attendance elsewhere, he must have passed one-half of his hours with a grade of C or above during the semester.

Students whose academic standing is so low during their last semester of attendance at Texas Technological College that they are no longer eligible to continue may not gain readmission by attending summer session at another institution.

### **Transfer of Credits From Other Colleges and Universities**

In general, credit hours earned at another accredited institution with grades of C or better are accepted for transfer to Texas Tech.

Transcripts are evaluated twice for two purposes:

1. First, by the Admissions Office to determine eligibility to enter Texas Tech.
2. Second, by the dean of the school in which the student applies to work for a degree at Texas Tech. This is to determine which courses completed at another institution can be accepted toward the degree sought at Texas Tech.

Since the College offers a number of degrees which require the fulfillment of widely differing curricula, the Registrar's acceptance of credits from another college does not guarantee the use of all these credits in a given curriculum. The usefulness of transferred credit is determined by whether or not the work is equivalent to work in the curriculum or to permissible electives. After being admitted to the College and having his credits accepted by the Registrar, the student should consult with the dean of the school in which he plans to enroll to determine which credits will be acceptable in his particular program.

At the option of the academic dean, transferred courses with a grade of D or the equivalent may not be accepted for credit toward meeting requirements for the degree. Transfer credit in physical education activity courses, or substitutes for them, is accepted to the extent that it meets degree requirements, but grade points accumulated in such courses cannot be applied to reduce a deficiency of grade points in other subjects.

Grade points are computed as follows: for each hour of A—4; B—3; C—2; D—1; all other grades—0.

Students transferring credits from a nonaccredited institution must prove the value of all such credits by earning a 2.00 grade average on the first 30 hours of residence work at Texas Technological College. Students who did not meet the admission requirements of this College at the time they were admitted to a nonaccredited institution must successfully pass required testing before being admitted here. Credit earned at another institution will also be validated as indicated above.

A former student of the College who has afterward attended another institution will be considered as a transfer student when applying for readmission and will be required to meet the standards for such students.

### **Admission of Graduate Students**

Full details of admission requirements for those wishing to enter the graduate program at Texas Technological College appear in the

*Graduate School Catalog*, which is published annually. A copy may be secured from the Office of the Dean of Admissions. It may be noted here, however, that those who wish to enter the graduate program in order to work toward a master's or doctor's degree will be required to take the Aptitude Test of the Graduate Record Examination. This may be done before enrollment or at the first examination date thereafter.

### **Concurrent Registration**

Concurrent registration at Texas Technological College and other institutions is not permitted during the summer session.

### **Transient Students**

Students enrolled in other colleges during the spring semester, who plan to attend the summer session only and return to the former colleges for the fall semester, may be admitted without the necessity of formal transcripts of record from the former colleges. Each transient student, however, must furnish a letter from the registrar of the previous college indicating classification and present scholastic standing. Admission as a transient student does not guarantee admission as a regular student in the following fall semester. Regular students must present transcripts and meet regular admission requirements. A transcript of work taken at Texas Technological College under the classification of "Transient Student" will be sent only to the college furnishing the letter of permission or letter of good standing. Students who have previously attended the College as regular students may not attend as transient students. They must make application for readmission and furnish transcripts.

## **Registration**

Each semester and summer term opens with a registration period during which the formal process of enrollment in the College is completed. Prior to registering for each semester or summer term, each student who completes the admission process is furnished registration materials with his notice of admission. These materials include the application for a registration permit packet and a form on which the student must indicate his local Lubbock address.

The student should complete and return these forms to the Registrar as soon as possible so that his Permit-to-Register may be processed and he may be assigned a registration time. Duplicate permits are not processed until the last day of registration, regardless of the registration time on the original permit.

### **Matriculation Number**

The MATRICULATION NUMBER is the student's Social Security number. This number must be furnished on all forms where it is requested as it is the primary means for maintaining his academic record.

Prospective students who do not have Social Security numbers should apply through their local post offices (or Social Security offices) in ample time to secure such numbers prior to application for admission.

### **Stop Enrollment**

Insufficient information or improper information given by the student on any admission or registration form will constitute cause for the

student to receive a "Stop Enrollment" card or "Notice of Permit Delay" in lieu of his regular Permit-to-Register. Suspension or Probationary status also constitutes cause for the same action.

## **Name Change**

Students who have a change in name after their last registration must provide a certified COPY of marriage certificate or COPY of court order which substantiates the legal name change. These documents must be submitted to the Registrar PRIOR to the ensuing registration to be effective for that semester of enrollment. Registration under a name different from the student's last enrollment cannot be accomplished without the above documents, which become a part of the student's permanent record file. All grade reports and transcripts are issued under the student's LEGAL name as recorded in the Registrar's Office.

## **Transcript Service**

Students may request copies of their academic records accumulated while at Texas Technological College as well as work transferred to the College. The first copy of a student's record, in whole or part, is furnished free of charge. Thereafter, a charge of \$1.00 per copy is assessed the student, payable in advance. Adequate advance notice of requests, normally one week, is required for transcript processing. All transcripts must be requested by the student and all requests should be made in writing.

# **Fees and Deposits**

## **General Fees**

**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.

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 the Veteran Coordinator in the Registrar's Office.

**Registration Fee for Resident Students.\*\*** For legal resident students of the State of Texas, registration fee for a six-week term is \$25. For resident students who enroll for less than 4 semester hours in any six-week term, the registration fee is \$20 per term.

**Registration Fee for Nonresident Students.\*\*** For nonresident students, the registration fee for a six-week term is \$100. For nonresident students who enroll for less than 4 semester hours in any six-week term, the registration fee is \$75 per term.

**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.

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

\*\* For the official interpretation of the terms "resident" and "nonresident," see Part I of the **General Catalog** (General Information and Degree Programs). Each student is held responsible for a proper classification of his own residency status according to these regulations throughout the period of his registration at Texas Technological College.

**Laboratory Fees.** For all courses in which the combined credit of lecture and laboratory is from 1 to 3 semester hours, a laboratory fee of \$2 is charged for each term. For courses in which the semester credit is 4 semester hours or more, the laboratory fee is \$4 per term.

**General Property Deposit.** A breakage deposit of \$7 is required from each student to cover breakage, library fines, or damage to College property or equipment while in the student's possession or use. The deposit, less charges, will be returned to the student at his request upon 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 if the student cancels his graduation intentions before the diploma has been printed and before other related steps are taken.

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

**Graduate Fees.** The cost of such research items as questionnaires, charts, maps, slides, microfilm, photostats, postage, etc., 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

### Geology 363\*

Tuition .....	\$ 25.00(a)
Room and Board .....	140.00
Course Fee .....	40.00
Transportation Fee .....	35.00
<b>Total</b>	<b>\$240.00</b>

(a) Resident Tuition; Nonresident Tuition is \$100.

Physical Education 4321 ..... \$ 12.50

**Workshop Fees.** Each one-week workshop with 1 semester hour of credit has a registration fee of \$10, plus a \$1 health fee.

Fees for other workshops will be based upon credit given.

**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 percent of any registration fees paid, and during the second week, 20 percent. 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.

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

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

The unused balance of the property deposit will be held at least 60 days after the close of a semester, or after a student withdraws during

\* A deposit of \$25 must be made on or before April 1, 1967, for the geology field course. This deposit is refundable up to May 1, 1967; it is forfeited as of this date if the student decides not to enroll for the field course.

a semester, so that all charges and fines may be accumulated from the various departments.

**Visitor's Fee.** A fee of \$10 for each course is required for the privilege of visiting any course. No credit may be obtained for auditing courses in this manner.

**Enrolling for No Credit.** Students regularly enrolled in the College, either in the summer session or the long session, may register for residence courses for no grade and therefore for no credit. Enrollment for no grade is to be considered on the same basis as registrations for credit, both in payment of fees and in the amount of work to be carried.

**Student Services Fee.** This is a \$3 fee that each student must pay each term of the summer session. This fee provides for Health Service and *The University Daily*.

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

### Music Fees for Private Instruction

Additional fees, payable at the time of registration, are charged for individual instruction in voice, piano, organ, strings, and wind instruments in the following courses in applied music:

Ap.M. 115, 116, 215, 216, 315, 316 .....	\$ 6
Ap.M. 125, 126, 225, 226, 235, 236, 325, 326, 345	
346, 425, 426, 435, 436, 445, 446, 535, 545 .....	\$12
Practice room and piano rental payable at the Business Office:	
One hour per day per six-week term .....	\$ 4
Each additional hour .....	\$ 2

### Summary of Expenses for Six-Week Term

#### Fees, Books, and Supplies

Registration Fee (legal resident of Texas) .....	\$ 25.00
General Property Deposit (refundable) .....	7.00
Student Union Fee (required) .....	2.50
Laboratory Fees (approximate) .....	4.00
Books and Supplies (approximate) .....	20.00
Student Services Fee .....	3.00
Total for six-week term (estimated) .....	<u>\$ 61.50</u>

For estimated costs, including residence hall room and board, add charges for the proper residence hall as shown below in the section entitled "Housing Facilities."

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. Moreover, 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 are subject to change without notice prior to registration date and with ten (10) days notice thereafter.

Single rooms may be assigned at additional cost if facilities are available.

### Room and Board Charges

The cost for a six-week term in the College air-conditioned residence halls, two persons per room, payable in advance, is \$145.00. The above charge includes 20 meals per week. No meal is served on Sunday evening.

Occupants of the residence halls are expected to furnish pillows, towels, bed linens, blankets, spreads, and other personal articles needed. There will be no residence halls linens available for rental to the regular summer session students.

### Room Reservations

An application for a room in a residence hall on the Texas Tech Campus may be secured by sending a request to the Office of Room Reservations, Box 4629, Texas Technological College, Lubbock, Texas 79409. Do not send a deposit with your request.

Upon receipt of your request for information, an application form for housing, along with a general information sheet on the charges for room and board and the amount of the deposit to be returned with the application, will be forwarded to the prospective student.

The application for housing is to be completed and returned with a check or money order for forty (\$40.00) dollars to the Office of Room Reservations. Do not send the application or the deposit to the Registrar's Office. This will only delay the processing of the application. The deposit will be refunded, less any breakage charges, if the student leaves at the end of the first or second summer term. Should a student find he is unable to enroll in the College, he will receive a refund of his deposit if application is made in writing to the Office of Room Reservations on or before May 15th for the first term, or June 30th for the second term. All unclaimed rooms in the residence halls will be declared vacant at 8 A.M. on the first day of classes, and the deposit will be forfeited. The deposit will also be forfeited if the student moves from his residence hall at any other time during the summer term for any other reason. This includes the student who is dropped from school for disciplinary action.

### Conference and Short Term Facilities

Persons wishing to arrange for housing and food services for conferences, or individuals desiring to register for workshops, institutes, or short courses for periods of less than a full summer term may write directly to the Director of Residence Halls, Box 4639, Texas Technological College, Lubbock, Texas 79409, for information about such facilities.

Students who will be on campus for Summer Orientation for Freshmen, may also make individual reservations for rooms in the residence halls by contacting the Director of Residence Halls.



## Short Term Guest Rates, 1967

TYPE OF ROOM	WITH AIR CONDITIONING	
	Per Day Per Individual	Per Week Per Individual
Room w/maid service (includes linen) :		
Double room	\$3.50	\$23.00
Single room	5.50	33.00
Room without maid service :		
Double room with linen	2.75	18.00
Double room without linen	2.25	14.00
Single room with linen	4.50	27.00
Single room without linen	4.00	24.00
FOOD SERVICE		
	DAILY	SUNDAY
Breakfast	\$ .65	\$ .75
Lunch	1.00	1.50
Dinner	1.25	

No refunds will be made for meal tickets purchased in advance, but not used.

For further information on special services, banquets, etc., contact the Director of Residence Halls, Box 4639, Texas Technological College, Lubbock, Texas 79409, Telephone No. PO 2-8811, Ext. 6211.

## Institutes, Workshops, Short Courses, and Field Trips

Students planning to enroll in short courses and workshops for college credit are requested to register in person or by mail prior to June 7-8, even though the beginning date of the course occurs later in the summer term.

Short term housing facilities are available in air-conditioned rooms in the residence halls. For information see "Housing Facilities."

## School of Arts and Sciences

### Biology Teachers Institute

With the goal of increasing the effectiveness of the teaching of biology in high schools, the National Science Foundation, through a grant to the Department of Biology, is sponsoring an institute for teachers of biology from June 8 to Aug. 10. Lectures, demonstrations, and field trips will provide an outstanding educational experience for participants, who may earn 9 semester hours of credit. The director of the Institute will be Paul V. Prior, Professor of Biology, to whom inquiries concerning this program should be addressed.

### Advanced Education Workshops in Teaching and Educational Administration

The Department of Education will offer four advanced education workshops during the first summer term of the 1967 summer session



and two during the second term. The workshops will carry from 1 to 3 semester hours credit and will be conducted by regular members of the Department of Education faculty assisted by resource persons and outside consultants. The workshops are scheduled so as to permit either 3 or 6 semester hours credit to be earned, 3 in a workshop and 3 in a related course.

Registration dates for all workshops will be at the regular registration periods for the summer sessions.

The Workshop in School Law for school superintendents and principals and classroom teachers is scheduled for June 19-July 7, 1967, and will be conducted by Dwight Kirk, Professor of Education, assisted by Holmes Webb, Professor of Education, and special consultants. The workshop will identify various kinds of liability and legal implications involved in administering schools and in dealing with various local, state, and national agencies and programs. Intensive case studies and analyses will be made. The student should enroll in Education 5325-1—Legal Bases of Education. The workshop runs from 9:00 A.M.-12 Noon and carries 3 semester hours credit. All inquiries should be addressed to Dwight Kirk, Department of Education, Texas Technological College, Lubbock, Texas 79409.

The Workshop in Special Education is scheduled for June 12-30, 1967. The workshop will be conducted by Bruce Mattson, Associate Professor of Education, assisted by Charles Jones, Associate Professor of Education and John Gladden, Visiting Associate Professor of Education and other specialists. The student should enroll in Education 5139 2, 3, 4—Special Education—Mental Retardation. Sessions will be from 1:30 P.M.-4:30 P.M. for 3 semester hours credit. The workshop will deal with development of teaching materials and methodology. All inquiries should be addressed to Bruce Mattson, Department of Education, Texas Technological College, Lubbock, Texas 79409.

The Workshop in School Business Services, scheduled for June 19-23, 1967, will be conducted by Berlie J. Fallon and will carry 1 semester hour credit. The student will register for Education 5139-1. All inquiries should be addressed to Berlie J. Fallon, Professor of Education, Department of Education, Texas Technological College, Lubbock, Texas 79409.

The Workshop in Elementary Education scheduled for June 12-30, 1967, will be conducted by Katherine Evans assisted by Neville Bremer and other members of the elementary education staff. The workshop will deal with the development of teaching materials and effective ways of presentation and evaluation. The student should register for Education 5355-1. The workshop will carry 3 semester hours credit and will run from 9:00 A.M.-12 Noon. The enrollee may take a second course to complete 6 semester hours credit.

During the second summer term a Workshop in Educational Administration is scheduled for July 17-August 4, 1967, under the direction of Dwight Kirk with assistance from other members of the staff in educational administration. The student should enroll in Education 5139-1, 2, 3 for 3 semester hours credit. The workshop will emphasize the problem-solving approach in developing ways and means of resolution of perplexing problems confronting school superintendents and principals. The workshop will run from 9:00 A.M.-12 Noon and will carry 3 semester hours credit. All inquiries should be addressed to Dwight Kirk, Department of Education, Texas Technological College, Lubbock, Texas 79409.

The Workshop in Special Education scheduled for the second term of the 1967 summer session is for July 17-August 4, 1967, and will be conducted by Bruce Mattson, Associate Professor of Education, assisted by other staff members and consultants. The workshop will be in session from 1:00 P.M. - 4:00 P.M. and will carry 3 semester hours credit. The workshop will deal with the motor characteristics and motor development of mentally retarded children and youth. All inquiries concerning the workshop should be addressed to Bruce Mattson, Department of Education, Texas Technological College, Lubbock, Texas 79409.

### **Field Courses in Mexico, 1967**

A group study course, Spanish 4328, 4329, is offered in each year in Mexico during the second term of the summer session. It is a study of various phases of pre-Hispanic and Hispanic civilizations (history, arts, language, and literature), and is designed for those who are preparing to teach Spanish or enter government service or who simply wish to acquire fluency in Spanish and an intimate knowledge of Mexican culture. Students stay at a hotel and in private homes in San Luis Potosi. During the week they attend class, visit places of interest in and near the city and have the opportunity to go to operas, concerts, plays, lectures, exhibitions, and bullfights. Early in August a field trip is scheduled to visit Mexico City after which the students will return to San Luis Potosi for the last part of the course. This course may be taken for 6 hours of advanced undergraduate or graduate credit. Registration will be on July 17, the first day of the second summer term, and the group will depart on July 18, returning on August 25. For additional details write Professor Scotti Mae Tucker, Department of Foreign Languages, Texas Technological College, Lubbock, Texas 79409.

### **High School Newspaper - Yearbook - Photography Workshop**

With the aid of a grant from the Newspaper Fund, Inc., the Department of Journalism will offer a photojournalism workshop for high school and junior college teachers from July 16 to July 29. Students may secure two hours of upper division or graduate credit.

The Department of Journalism and the Southwestern Council of Student Publications will jointly sponsor a photojournalism workshop for students and teachers July 30 to August 4 and the ninth annual 5-day workshop for high school students and teachers August 6 to 11.

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

A registration fee of \$15 is charged. No college credit is offered for the two 5-day workshops. For details and reservations, write the Department of Journalism, Texas Technological College.

### **Summer Music Camp**

**Band, Chorus, Orchestra, and Piano  
(Pre-College)**

The College maintains a large summer band, orchestra, choral, and piano program, concurrent with the first summer term. A wide range of

courses is offered during this period. A large staff of instructors augments the regular College staff in making these offerings possible.

Nationally known conductors and instructors have been invited to conduct each activity. For further information, write to the Music Department, Texas Technological College, Lubbock, Texas 79409.

**Band.** Three or more bands are open to accommodate students at various levels of advancement. Special instructors on all wind instruments offer instruction in technique. Percussion and baton twirling instructions are available to those interested, and pre-college theory classes are open to all pre-college students. Band camp is from July 16-28.

**Chorus.** A strong program for high school students and church choir directors is offered from July 16-28 in choral music, stressing repertoire, tone production, rhythmic precision, small group lessons in voice, and classes in theory.

**Orchestra.** College and public school instructors will join forces to conduct the tenth annual summer program in orchestra for string students at elementary, intermediate, and advanced levels. The junior high-elementary camp and the senior high school camp are July 16-28.

**Piano.** A five-day workshop, June 5 to 16, featuring a nationally known artist-teacher is one of the highlights of the summer piano school. Courses for elementary, intermediate, and advanced students and teachers are offered with a special emphasis on piano repertoire, interpretation, and technique.

## **Workshop in Directing School Speech Activities**

Speech 4325 will be offered as a workshop during the first half of the first summer term, July 17-August 4. The first week will be primarily lecture and preparation for activities of the High School Dramatics and Forensics Workshop. The combination of these two workshops provides the high school teacher practical experience in problems and opportunities present in school speech activities. Both active participation in directing and observation of discussion, debate, declamation, dramatics, extemporaneous speaking, and poetry reading are possible.

## **Dramatics and Forensics (High School) Workshop**

A workshop in dramatics and forensics for high school students will be conducted by the Speech Department, July 23-August 4. It is open to any high school sophomore or junior, or outstanding freshman of the 1966-67 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 1967.

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

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

The problem of the 1967-68 forensics seasons 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 Department of Speech, Texas Technological College, Lubbock, Texas 79409.

## **School of Home Economics**

### **Art Education Painting Workshop**

This workshop will be offered for either undergraduate or graduate credit; it will be conducted in Taos, New Mexico, in two three-week sessions. The June 6 to June 23 session will include crafts, as well as sketching and watercolor, under the direction of Clarence Kincaid and Foster Marlow. The June 26 to July 15 session will include sketching and painting problems in opaque and transparent media under the direction of Clarence Kincaid and Juanita Pollard. Morning sessions will be conducted in a studio and afternoons will be spent working on location, visiting galleries, and touring studios of Taos artists. Guest lectures, demonstrations, and critiques will be given by Taos artists of national renown.

Undergraduates will enroll in Applied Arts 3314 and graduate students in Applied Arts 531. Residents of Texas will pay a fee of \$45 for 3 weeks and \$75 for 6 weeks. Nonresidents of Texas will pay a fee of \$100 for 3 weeks and \$150 for 6 weeks. Students must make their own arrangements for living accommodations.

For further information direct inquiries to Bill Lockhart, Head of the Department of Applied Arts, Texas Technological College, Lubbock, Texas 79409. Students should initiate pre-enrollment with the Applied Arts Department before May 1, but registration will be permitted June 6 if classes are not full.

### **Art Education Workshop**

Emphasis will be concentrated on practical projects to prepare the enrollees to apply these art experiences directly in classroom situations with elementary-age children. This course, conducted by Franz Kriwanek, is planned for teachers, recreation leaders, and adults who work with young children. While the structure of the workshop each year stresses three main areas of classroom work with children, each year the projects are different and selected with regards to new materials, methods, and philosophies in Art Education. The workshop may be taken for 1, 2, or 3 weeks as follows:

First week, June 6-10, stressing crafts. This week will include experiences with balsa wood, cardboard, construction paper, reed, clay, and other 3-dimensional materials.

Second week, June 12-16, stressing bulletin boards and displays. This week will include simple lettering, posters, bulletin boards, and the application of creative ideas for display of children's art.

Third week, June 19-23, stressing drawing and painting for elementary children. This will include projects and ideas with crayons, tempera colors, watercolors, India ink, and mixed media.

Students enrolling for any one week only enroll in Applied Arts 511-1B, at a fee of \$13. Students enrolling for any two weeks enroll

in Applied Arts 511-1C and 511-2D at a fee of \$25. Students enrolling for all three weeks enroll in Applied Arts 531-2B at a fee of \$23 for Texas residents or \$70 for nonresidents. Students attending the first week may pre-enroll by mail or at regular registration, June 7-8; all others should pre-enroll by mail, initiated with Bill Lockhart, Head of the Department of Applied Arts, before May 1.

### **Workshop in Clothing and Textiles**

Each week of this three week workshop (July 5-10, July 17-21, July 24-28) will emphasize a different area as shown below. Graduate students may enroll in 1, 2, or 3 weeks to earn 1, 2, or 3 graduate semester hours.

July 5-10—Social Psychological Aspects of Clothing.

Enroll in C&T 511-A

July 17-21—Fashion as a Social Force

Enroll in C&T 511-B

July 24-28—New Developments in Textiles

Enroll in C&T 511-C

### **Workshop on Advanced Food Production Management**

F&N 421, to be conducted June 9-21, is a workshop planned to meet the academic requirements of the American Dietetic Association for further study of managerial aspects of quantity food production. The fee for Texas residents is \$23 and for nonresidents, \$78.

### **Workshop for Food Service Workers in Small Hospitals**

This workshop is planned to provide concentrated training for quality food service for workers in small hospitals. Enrollment may be for first or for both weeks.

June 19-23, F&N 111-A—newcomers

Commuters—\$20, includes tuition and fees.

Residence Hall Occupants—\$45, includes tuition, fees, meals, room.

June 26-30; F&N 111-B—for repeaters

Commuters—\$20, includes tuition and fees.

Residence Hall Occupants—\$45, includes tuition, fees, meals, room.

Students may enroll at regular time on June 7-8 or by pre-enrollment initiated by May 1 with Mina Lamb, Head of the Department of Food and Nutrition.

### **Workshop on Child Nutrition**

This workshop is designed for persons working with children, either preschool, school or teenage, to learn characteristics related to food preference and acceptance, dietary needs, and the malnutrition syndrome.

The course is F&N 515-B meeting July 10-14 and may be taken for graduate credit or noncredit. It will be repeated July 18-22.

Students may enroll at regular time June 7-8 or by pre-enrollment initiated prior to May 1 with Mina Lamb, Head of the Department of Food and Nutrition.

## **Workshop in Current Trends in Food Administration**

This workshop is planned for dietitians and persons actively engaged in food production management. It will stress current trends in management of various areas of food production. Joan Coleman, food administration consultant and chairman of Southern Region of College Teachers of Institutional Management will teach the workshop.

The course is F&N 515-A to be held from June 12-16 and may be taken for credit or noncredit.

Students may enroll at regular time June 7-8 or by pre-enrollment initiated prior to May 1 with Mina Lamb, Head of the Department of Food and Nutrition.

## **Food and the Consumer Workshop**

This workshop is designed to help home economists understand current trends in food marketing, processing, and selection of food for intended use as well as cost analysis in recent economic trends. Ilse H. Wolf, professor of home management, formerly at Oklahoma State University, will teach the course.

The course is F&N 515-A to be held from July 24-28 and may be taken for graduate credit or noncredit.

Students may enroll at regular time July 17-18 or by pre-enrollment.

## **Workshop in Curriculum Development**

Home Economics Education 532 will be offered as a workshop July 16-29 and August 7-10. Emphasis will be given to recent developments in curriculum design. The workshop has been scheduled to enable teachers to attend the State Homemaking Teachers Conference July 31-August 4. Enrollment is at regular registration, July 17-18.

Fee: Residents—\$21, nonresidents—\$76. See section on housing facilities in this catalog.

## **Advanced Interpersonal and Family Relations**

In this workshop, offered for 3 hours credit as CD&FR 5336 from June 26-July 15, 1967, Elmer M. Knowles, guest professor, will give special emphasis to the group processes. Stress will be placed upon methods and techniques of teaching interpersonal and family relations, as well as family counseling. Consideration will focus on the factors influencing personal and family adjustment. This workshop should be of special interest to home economics teachers, home demonstration agents, and to others who have counseling responsibilities.

Enrollment: Regular registration June 7-8, 1967. Students who find it necessary to make other arrangements for registration should contact Head, Home and Family Life Department, Texas Technological College, Lubbock, Texas 79409.

Fee: \$21 for Texas residents; \$76 for nonresidents.

## **Exceptional Children in the Family**

This short course, offered as CD&FR 438, from June 9-24, 1967, will be of special interest to majors in special education (graduate and undergraduate), education and child development. Particular emphasis will be given to attitudes and responsibilities in families who have exceptional children. The use of community resources for the exceptional child will be stressed. Opportunities to correlate work in re-

lated departments will be provided. Guest professor is Donald S. Longworth.

Enrollment: June 7-8, 1967, at regular summer school registration.

Fee: \$21 for Texas residents; \$76 for nonresidents. Lab Fee: \$2.

### **Current Issues in Family Management**

This one-hour workshop, offered as HM 511, from July 18-22, 1967 will deal with current issues which face the homemaker, the teacher of home economics, or the home demonstration agent. Opportunity for individual study in home management, work simplification, family financial security, etc. will be offered.

Enrollment: Registration will be July 17-18, 1967, at regular registration for second term.

Fee: \$11.

## **School of Agriculture**

The summer session for the School of Agriculture will include undergraduate courses in agricultural economics, agricultural education, agricultural engineering, agronomy and range management, animal husbandry, dairy industry, entomology, horticulture, park administration, 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 work, and 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 and range management, animal husbandry, dairy industry, horticulture, park administration, and entomology are provided for those students desiring to earn a Master of Science Degree.

### **Agricultural Economics**

Willard F. Williams, Head

#### *First Term*

##### **For Undergraduates**

235. Fundamentals of Agricultural Economics. Cr. 3.

##### **For Undergraduates and Graduates**

431. Livestock Marketing. Cr. 3.

430. Special Problems in Agricultural Economics. Cr. 3.

4311. Agricultural Finance. Cr. 3.

##### **For Graduates**

533. Seminar in Agricultural Marketing. Cr. 3.

534. Research in Agricultural Economics. Cr. 3.

631. Master's Thesis. Cr. 3.



*Second Term**For Undergraduates*

236. Principles of Marketing Agricultural Products. Cr. 3.  
 333. Cooperatives in Agriculture. Cr. 3.

*For Undergraduates and Graduates*

430. Special Problems in Agricultural Economics. Cr. 3.  
 435. Agricultural Policies and Organizations. Cr. 3.

*For Graduates*

631. Master's Thesis. Cr. 3.

**Agricultural Education**

T. L. Leach, Head

*First Term**For Graduates*

522. Advanced Methods in High School Vocational Agriculture. Cr. 2.  
 523. Advanced Methods in Adult Agricultural Education. Cr. 2.  
 524. Advanced Methods in Future Farmer Work. Cr. 2.  
 531. Investigation in the Field of Agricultural Education. Cr. 3.  
 535. Problems. Cr. 3.  
 536. Advanced Methods of Teaching Farm Mechanics. Cr. 3.  
 630. Master's Report. Cr. 3.  
 631. Master's Thesis. Cr. 3.

*Second Term**For Undergraduates*

430. Agricultural Education Problems. Cr. 3.

*For Graduates*

531. Investigation in the Field of Agricultural Education. Cr. 3.  
 535. Problems. Cr. 3.  
 630. Master's Report. Cr. 3.  
 631. Master's Thesis. Cr. 3.

**Agricultural Engineering**

Willie L. Ulich, Head

*First Term**For Undergraduates and Graduates*

430. Agricultural Engineering Problems. Cr. 3.  
 435. Farm Mechanics Problems. Cr. 3.

*For Graduates*

530. Agricultural Engineering Research. Cr. 3.  
 538. Advanced Technical Problems in Agricultural Engineering. Cr. 3.

*Second Term*

(No classes)



## Agronomy and Range Management

A. W. Young, Head

### *First Term*

#### AGRONOMY

For Undergraduates

241. Soils. Cr. 4. 9 lec. hrs., 6 lab. hrs.  
 341. Fundamental Principles of Genetics. Cr. 4. 9 lec. hrs., 6 lab. hrs.

For Undergraduates and Graduates

430. Agronomy Problems. Cr. 3.

For Graduates

511. Agronomy Seminar. Cr. 1.  
 534. Agronomy Research. Cr. 3.  
 631. Master's Thesis. Cr. 3.

#### RANGE MANAGEMENT

For Undergraduates and Graduates

432. Range Management Problems. Cr. 3.

For Graduates

534. Range Research. Cr. 3.  
 631. Master's Thesis. Cr. 3.

### *Second Term*

#### AGRONOMY

For Undergraduates and Graduates

430. Agronomy Problems. Cr. 3.

For Graduates

534. Agronomy Research. Cr. 3.  
 631. Master's Thesis. Cr. 3.

#### RANGE MANAGEMENT

For Undergraduates and Graduates

430. Wildlife Problems. Cr. 3.

For Graduates

534. Range Research. Cr. 3.  
 631. Master's Thesis. Cr. 3.

## Animal Husbandry

Dale W. Zinn, Acting Head

### *First Term*

#### ANIMAL HUSBANDRY

For Undergraduates and Graduates

331. Principles of Feeding. Cr. 3.  
 430. Special Problems in Animal Husbandry. Cr. 3.  
 431. Beef Cattle Production. Cr. 3.  
 432. Animal Breeding. Cr. 3.

For Graduates

533. Techniques in Animal Research. Cr. 3.  
 534. Research in Animal Science. Cr. 3.  
 631. Master's Thesis. Cr. 3.

*Second Term***ANIMAL HUSBANDRY**

For Undergraduates

430. Special Problems in Animal Husbandry. Cr. 3.

For Graduates

533. Techniques in Animal Research. Cr. 3.  
 534. Research in Animal Science. Cr. 3.  
 631. Master's Thesis. Cr. 3.

**VETERINARY SCIENCE**

For Undergraduates

331. Anatomy of Farm Animals. Cr. 3.

**Dairy Industry**

J. J. Willingham, Head

*First Term*

For Undergraduates

131. Principles of the Dairy and Food Industries. Cr. 3.  
 430. Food and Dairy Industry Problems. Cr. 3.

For Graduates

531. Dairy Industry Research. Cr. 3.  
 631. Master's Thesis. Cr. 3.

*Second Term*

For Undergraduates

430. Food and Dairy Industry Problems. Cr. 3.

For Graduates

535. Dairy Bacteriology Research. Cr. 3.  
 631. Master's Thesis. Cr. 3.

**Park Administration, Horticulture,  
and Entomology**

E. J. Urbanovsky, Head

*First Term***PARK ADMINISTRATION**

For Undergraduates

330. Problems Course. Cr. 3.  
 430. Problems Course. Cr. 3.

For Graduates

531. Park Adm. Research. Cr. 3.  
 631. Thesis. Cr. 3.

**HORTICULTURE**

For Undergraduates and Graduates

425. Problems Course. Cr. 2.  
 430. Problems Course. Cr. 3.  
 631. Thesis. Cr. 3.

## ENTOMOLOGY

For Undergraduates and Graduates

431. Agricultural Compounds. Cr. 3. 7½ lec. hrs.

For Graduates

531. Entomology Research. Cr. 3.
- 
631. Thesis. Cr. 3.

*Second Term*

## PARK ADMINISTRATION

For Graduates

531. Park Adm. Research. Cr. 3.
- 
631. Thesis. Cr. 3.

## HORTICULTURE

For Undergraduates and Graduates

430. Problems Course. Cr. 3.
- 
631. Thesis. Cr. 3.

## ENTOMOLOGY

For Graduates

531. Entomology Research. Cr. 3.
- 
631. Thesis. Cr. 3.

<h2 style="margin: 0;">School of Arts and Sciences</h2>
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The course offerings of the departments within the School of Arts and Sciences have been selected with two purposes in mind. Since 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 begin his college work in an orderly manner. Hence, courses of all levels from freshman to graduate are included in the summer offerings.

Another continuing function of the summer school is to provide courses for those who do not attend the regular sessions. These offerings are 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 the areas of administration, supervision, or counseling will find an ample selection of courses.

**Biology**

Earl D. Camp, Head

*First Term*

## BIOLOGY

For Undergraduates

141. Botany. Cr. 4. 9 lec. hrs., 9 lab. hrs.
- 
142. Zoology. Cr. 4. 9 lec. hrs., 9 lab. hrs.

For Undergraduates and Graduates

331. \*Heredity. Cr. 3. 9 lec. hrs.

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\* A student may register for this course only with the permission of Paul V. Prior, the Director of the Summer Institute for High School Biology Teachers.

## BOTANY

## For Undergraduates

334. \*Taxonomy of the Flowering Plants. Cr. 3. 6 lec. hrs., 9 lab. hrs.

## For Undergraduates and Graduates

331. \*Plant Physiology. Cr. 3. 6 lec. hrs., 9 lab. hrs.

## For Graduates

531. Problems in Botany. Cr. 3. 18 lab. hrs.  
 535. \*Field Botany. Cr. 3. 18 lab. hrs.  
 538. \*Advanced Taxonomy of the Vascular Plants. Cr. 3. 6 lec. hrs., 9 lab. hrs.  
 631. Master's Thesis. Cr. 3.

## MICROBIOLOGY

## For Undergraduates and Graduates

331. General Bacteriology. Cr. 3. 12 lec. hrs., 18 lab. hrs. First 3 weeks.  
 430. Advanced General Bacteriology. Cr. 3. 12 lec. hrs., 18 lab. hrs. Second 3 weeks.

## ZOOLOGY

## For Undergraduates

235. Anatomy, Physiology, and Hygiene. Cr. 3. 12 lec. hrs., 18 lab. hrs. First 3 weeks.  
 236. Anatomy, Physiology, and Hygiene. Cr. 3. 12 lec. hrs., 18 lab. hrs. Second 3 weeks.  
 241. Comparative Vertebrate Anatomy. Cr. 4. 9 lec. hrs., 9 lab. hrs.

## For Undergraduates and Graduates

437. Natural History of the Vertebrates. Cr. 3. 6 lec. hrs., 9 lab. hrs.  
 438. Cellular Physiology. Cr. 3. 6 lec. hrs., 9 lab. hrs.  
 531. Problems in Zoology. Cr. 3. 18 lab. hrs.  
 534. \*Advanced Invertebrate Zoology. Cr. 3. 6 lec. hrs., 9 lab. hrs.  
 631. Master's Thesis. Cr. 3.

*Second Term*

## BIOLOGY

## For Undergraduates

141. Botany. Cr. 4. 9 lec. hrs., 9 lab. hrs.

## For Undergraduates and Graduates

331. \*Heredity. Cr. 3. 9 lec. hrs.

## BOTANY

## For Graduates

531. Problems in Botany. Cr. 3. 18 lab. hrs.  
 538. \*Advanced Taxonomy of the Vascular Plants. Cr. 3. 6 lec. hrs., 9 lab. hrs.  
 631. Master's Thesis. Cr. 3.

## ZOOLOGY

## For Graduates

531. Problems in Zoology. Cr. 3. 18 lab. hrs.  
 534. \*Advanced Invertebrate Zoology. Cr. 3. 6 lec. hrs., 9 lab. hrs.  
 631. Master's Thesis. Cr. 3.

\* A student may register for this course only with the permission of Paul V. Prior, the Director of the Summer Institute for high School Biology Teachers.

## Chemistry

Joe Dennis, Head

### *First Term*

#### For Undergraduates

141. General Chemistry. Cr. 4. 7½ lec. hrs., 9 lab. hrs.  
 341. Introductory Organic Chemistry. Cr. 4. 7½ lec. hrs., 9 lab. hrs.

#### For Undergraduates and Graduates (Graduate Minor Only)

325. Organic Chemistry Laboratory. Cr. 2. 18 lab. hrs.  
 335. Organic Chemistry Lecture. Cr. 3. 7½ lec. hrs.

#### For Graduates

531. Individual Research Problems. Cr. 3.  
 631. Master's Thesis. Cr. 3.  
 831. Doctor's Dissertation. Cr. 3.

### *Second Term*

#### For Undergraduates

142. General Chemistry. Cr. 4. 7½ lec. hrs., 9 lab. hrs.

#### For Undergraduates and Graduates (Graduate Minor Only)

326. Organic Chemistry Laboratory. Cr. 2. 18 lab. hrs.  
 336. Organic Chemistry Lecture. Cr. 3. 7½ lec. hrs.

#### For Graduates

532. Individual Research Problems. Cr. 3.  
 631. Master's Thesis. Cr. 3.  
 831. Doctor's Dissertation. Cr. 3.

## Education

Morris S. Wallace, Head

### *First Term*

#### For Undergraduates

330. Foundations of Secondary Education. Cr. 3.  
 332. Educational Psychology. Cr. 3.  
 334. Curriculum Development in Secondary Education. Cr. 3.  
 3331. Child Development and the Elementary School Curriculum. Cr. 3.  
 3344. Language Arts in the Elementary School Curriculum. Cr. 3.  
 3345. Social Studies in the Elementary Curriculum. Cr. 3.  
 436. Teaching in Secondary Schools. Cr. 3.  
 4315. Audio-Visual Education. Cr. 3.  
 4341. Teaching Arithmetic in the Elementary School. Cr. 3.  
 4342. Teaching Reading in the Elementary School. Cr. 3.  
 4343. Teaching Science in the Elementary School. Cr. 3.

#### For Undergraduates and Graduates

430. History and Philosophy of Education. Cr. 3.  
 438. Educational Measurement and Evaluation. Cr. 3.  
 4331. Foundations of Educational Sociology. Cr. 3.  
 4338. The Education of the Exceptional Child. Cr. 3.

4339. Teaching the Mentally Retarded. Cr. 3.  
 4344. Children's Literature. Cr. 3.  
 4354. The Education of the Mentally Retarded Child. Cr. 3.

#### For Graduates

5139. Advanced Education Workshop in Teaching and Administration. Cr. 1-3.  
 530. Advanced Educational Psychology. Cr. 3.  
 537. Secondary School Administration. Cr. 3.  
 539. Administration of School Business Services. Cr. 3.  
 5311. Audio-Visual Education. Cr. 3.  
 5312. Supervision in the Elementary School. Cr. 3.  
 5313. Supervision in the Secondary School. Cr. 3.  
 5319. Audio-Visual Production. Cr. 3.  
 5321. Individual Study in Education. Cr. 3.  
 5322. Research in Education. Cr. 3.  
 5326. Reading Development in the Elementary School. Cr. 3.  
 5331. Human Development in Education. Cr. 3.  
 5334. Teaching Reading in Secondary Schools. Cr. 3.  
 5326. Reading Development in the Elementary School. Cr. 3.  
 5331. Human Development in Education. Cr. 3.  
 5341. Developing Arithmetic Programs in Elementary Education. Cr. 3.  
 5342. Developing Reading Programs in Elementary Education. Cr. 3.  
 5343. Developing Natural Physical Environmental Concepts in Elementary Education. Cr. 3.  
 5344. Developing Language Arts Programs in Elementary Education.  
 5345. Developing Social Studies Programs in Elementary Education. Cr. 3.  
 5346. Fundamentals of Curriculum Development. Cr. 3.  
 5351. General Education Seminar. Cr. 3.  
 5355. Seminar in Elementary Education. Cr. 3.  
 5359. Seminar in Supervision. Cr. 3.  
 5366. School Personnel Administration. Cr. 3.  
 5371. General Supervision. Cr. 3.  
 5372. Developing the School Guidance Program. Cr. 3.  
 5382. Guidance and the Classroom Teacher. Cr. 3.  
 5383. Information Services in Guidance. Cr. 3.  
 630. Master's Report. Cr. 3.  
 631. Master's Thesis. Cr. 3.  
 635. Internship in Education. Cr. 3.  
 636. Internship in Education. Cr. 3.  
 731, 732. Research. Cr. 3 each.  
 831. Doctor's Dissertation. Cr. 3.  
 Enrollment required at least four times.

#### Second Term

#### For Undergraduates

330. Foundations of Secondary Education. Cr. 3.  
 332. Educational Psychology. Cr. 3.  
 334. Curriculum Development in Secondary Education. Cr. 3.  
 3331. Child Development and the Elementary School Curriculum. Cr. 3.  
 3344. Language Arts in the Elementary School Curriculum. Cr. 3.  
 436. Teaching Secondary Schools. Cr. 3.  
 4315. Audio-Visual Education. Cr. 3.  
 4341. Teaching Arithmetic in Elementary School. Cr. 3.

4342. Teaching Reading in Elementary School. Cr. 3.  
 4343. Teaching Science in Elementary School. Cr. 3.

**For Undergraduates and Graduates**

430. History and Philosophy of Education. Cr. 3.  
 4331. Educational Sociology. Cr. 3.  
 4344. Children's Literature. Cr. 3.  
 4352. Teaching the Brain-injured Child. Cr. 3.  
 4355. Teaching the Gifted Child. Cr. 3.

**For Graduates**

530. Advanced Educational Psychology. Cr. 3.  
 5139. Advanced Education Workshop in Teaching and Administration.  
 Cr. 3.  
 5321. Individual Study in Education. Cr. 3.  
 5326. Reading Development in the Elementary School. Cr. 3.  
 5331. Human Development in Education. Cr. 3.  
 5334. Teaching Reading in the Secondary School. Cr. 3.  
 5341. Developing Arithmetic Programs in Elementary Education. Cr. 3.  
 5342. Developing Reading Programs in Elementary Education. Cr. 3.  
 5344. Developing Language Arts Programs in Elementary Education.  
 Cr. 3.  
 5345. Developing Social Studies in Elementary Education. Cr. 3.  
 5346. Fundamentals of Curriculum Development. Cr. 3.  
 5356. Seminar in Secondary Education. Cr. 3.  
 5364. Seminar in Educational Psychology. Cr. 3.  
 5369. School Public Relations. Cr. 3.  
 5371. General Supervision. Cr. 3.  
 5372. Developing the School Guidance Program. Cr. 3.  
 5373. Education Evaluation. Cr. 3.  
 5382. Guidance and the Classroom Teacher. Cr. 3.  
 5385. Student Personnel Services in Higher Education. Cr. 3.  
 630. Master's Report. Cr. 3.  
 631. Master's Thesis. Cr. 3.  
 635. Internship in Education. Cr. 3.  
 636. Internship in Education. Cr. 3.  
 731, 732. Research. Cr. 3 each.  
 831. Doctor's Dissertation. Cr. 3.  
 Enrollment required at least four times.

## English

*First Term*

Everett A. Gillis, Head

**For Undergraduates**

131. College Rhetoric. Cr. 3.  
 132. College Rhetoric. Cr. 3.  
 231. Masterpieces of Literature. Cr. 3.  
 232. Masterpieces of Literature. Cr. 3.  
 330. Early English Literature. Cr. 3.  
 335. Shakespeare. Cr. 3.  
 339. English Romanticism. Cr. 3.  
 3322. British Literature of the Twentieth Century. Cr. 3.  
 3323. American Literature and Its Backgrounds. Cr. 3.  
 3324. American Literature and Its Backgrounds. Cr. 3.  
 3326. American Literature of the Twentieth Century. Cr. 3.

3327. The English Novel. Cr. 3.  
 3337. Advanced Grammar. Cr. 3.

**For Undergraduates and Graduates**  
 (Normally for Graduate Minor Credit Only)

434. Milton. Cr. 3.  
 439. American English. Cr. 3.  
 4343. Modern American and European Drama. Cr. 3.  
 4336. Teaching of English in the Secondary School. Cr. 3.  
 4337. English Literary History. Cr. 3.  
 4349. Ancient and Medieval Literature. Cr. 3.

**For Graduates**

5311. Studies in Seventeenth Century Literature. Cr. 3.  
 5323. Studies in Nineteenth Century American Literature. Cr. 3.  
 5324. Studies in Twentieth Century American Literature. Cr. 3.  
 5325. American Novel to 1900. Cr. 3.  
 5329. Studies in Modern Poetry. Cr. 3.  
 539. Studies in the Neo-Classical Age. Cr. 3.  
 630. Master's Report. Cr. 3.  
 631. Master's Thesis. Cr. 3.  
 731. Research. Cr. 3.  
 732. Research. Cr. 3.  
 831. Doctor's Dissertation. Cr. 3.

*Second Term*

**For Undergraduates**

131. College Rhetoric. Cr. 3.  
 132. College Rhetoric. Cr. 3.  
 231. Masterpieces of Literature. Cr. 3.  
 232. Masterpieces of Literature. Cr. 3.  
 335. Shakespeare. Cr. 3.  
 338. English Literature of the Eighteenth Century. Cr. 3.  
 3314. Literature of the English Renaissance. Cr. 3.  
 3322. British Literature of the Twentieth Century. Cr. 3.  
 3323. American Literature and its Backgrounds. Cr. 3.  
 3324. American Literature and its Backgrounds. Cr. 3.  
 3329. Major American Poets. Cr. 3.  
 3338. Introduction to Linguistic Science. Cr. 3.

**For Undergraduates and Graduates**  
 (Normally for Graduate Minor Credit Only)

4341. Regional Literature of the United States. Cr. 3.

**For Graduates**

5313. Studies in Modern European Literature. Cr. 3.  
 5314. Studies in Literary Criticism. Cr. 3.  
 5319. Studies in Shakespeare. Cr. 3.  
 5322. Studies in Modern British Literature. Cr. 3.  
 5335. Principles of Language. Cr. 3.  
 630. Master's Report. Cr. 3.  
 631. Master's Report. Cr. 3.  
 731. Research. Cr. 3.  
 732. Research. Cr. 3.  
 831. Doctor's Dissertation. Cr. 3.



## Foreign Languages

### *First Term*

Harley D. Oberhelman, Head

### FRENCH

#### For Undergraduates

- 141. A Beginning Course in French. Cr. 4.
- 231. A Second Course in French. Cr. 3.
- 331. Introduction to French Life and Literature. Cr. 3.

#### For Undergraduates and Graduates

- 4315. A Survey of French Classics I. Cr. 3.

#### For Graduates

- 630. Master's Report. Cr. 3.
- 631. Master's Thesis. Cr. 3.

### GERMAN

#### For Undergraduates

- 141. A Beginning Course in German. Cr. 4.
- 231. A Second Course in German. Cr. 3.
- 233. Scientific German. Cr. 3.

#### For Undergraduates and Graduates

- 436. Readings in German Language and Literature II. Cr. 3.

#### For Graduates

- 630. Master's Report. Cr. 3.
- 631. Master's Thesis. Cr. 3.

### LATIN

#### For Undergraduates

- 131. A Beginning Course in Latin. Cr. 3.
- 231. A Second Course in Latin. Cr. 3.

### METHODS

#### For Graduates

- 5335. Spanish for the Elementary School. Cr. 3.  
(Given from 1:00 to 5:30 p.m. from June 9 to June 22.)

### SPANISH

#### For Undergraduates

- 141. A Beginning Course in Spanish. Cr. 4.
- 231. A Second Course in Spanish. Cr. 3.
- 331. Masterpieces of the Hispanic World. Cr. 3.

#### For Undergraduates and Graduates

- 436. Advanced Composition and Conversation. Cr. 3.
- 4327. Survey of Spanish American Literature. Cr. 3.

#### For Graduates

- 5312. Studies in Spanish and Spanish American Literature. Cr. 3.
- 630. Master's Report. Cr. 3.
- 631. Master's Thesis. Cr. 3.

*Second Term*

Alfred B. Strehli, Acting Head

## FRENCH

## For Undergraduates

142. A Beginning Course in French. Cr. 4.  
 232. A Second Course in French. Cr. 3.  
 332. Introduction to French Life and Literature. Cr. 3.

## For Undergraduates and Graduates

436. Readings in French Language and Literature III. Cr. 3.

## For Graduates

630. Master's Report. Cr. 3.  
 631. Master's Thesis. Cr. 3.

## GERMAN

## For Undergraduates

142. A Beginning Course in German. Cr. 4.  
 232. A Second Course in German. Cr. 3.  
 234. Scientific German. Cr. 3.

## For Graduates

630. Master's Report. Cr. 3.  
 631. Master's Thesis. Cr. 3.

## LATIN

## For Undergraduates

132. A Beginning Course in Latin. Cr. 3.  
 232. A Second Course in Latin. Cr. 3.

## SPANISH

## For Undergraduates

142. A Beginning Course in Spanish. Cr. 4.  
 232. A Second Course in Spanish. Cr. 3.  
 332. Masterpieces of the Hispanic World. Cr. 3.

## For Undergraduates and Graduates

4319. Readings in Contemporary Spanish Literature. Cr. 3.  
 4328. Spanish Civilization. Cr. 3. (Given in Mexico)  
 4329. Spanish Civilization. Cr. 3. (Given in Mexico)

## For Graduates

630. Master's Report. Cr. 3.  
 631. Master's Thesis. Cr. 3.

**Geosciences**

Richard B. Mattox, Head

*First Term*

## GEOGRAPHY

## For Undergraduates

2351. Regional Geography of the World. Cr. 3. 9 lec. hrs.

## For Undergraduates and Graduates

4356. Geography of the American Southwest. Cr. 3. 9 lec. hrs.

## GEOLOGY

## For Undergraduates

143. Physical Geology. Cr. 4. 9 lec. hrs., 6 lab. hrs.

## For Undergraduates and Graduates

363. Field Geology. Cr. 6. Given in the field (Write to the department for specific information.)

## For Graduates

535. Advanced Work in Specific Fields. Cr. 3.  
 536. Advanced Work in Specific Fields. Cr. 3.  
 631. Master's Thesis. Cr. 3.  
 731. Research. Cr. 3.  
 732. Research. Cr. 3.  
 831. Doctor's Dissertation. Cr. 3.

*Second Term*

## GEOLOGY

## For Undergraduates

143. Physical Geology. Cr. 4. 9 lec. hrs., 6 lab. hrs.  
 144. Historical Geology. Cr. 4. 9 lec. hrs., 6 lab. hrs.

## For Graduates

535. Advanced Work in Specific Fields. Cr. 3.  
 536. Advanced Work in Specific Fields. Cr. 3.  
 631. Master's Thesis. Cr. 3.  
 731. Research. Cr. 3.  
 732. Research. Cr. 3.  
 831. Doctor's Dissertation. Cr. 3.

## Government

Lynnwood M. Holland, Head

*First Term*

## For Undergraduates

231. American Government, Organization. Cr. 3.  
 232. American Government, Functions. Cr. 3.  
 3351. The Judicial Process. Cr. 3.  
 3361. International Politics. Cr. 3.

## For Undergraduates and Graduates

4321. Local Government. Cr. 3.  
 4354. Jurisprudence. Cr. 3.  
 4361. United States Foreign Policy. Cr. 3.  
 4379. British Government. Cr. 3.

## For Graduates

531. Readings and Research. Cr. 3.  
 533. Seminar In Political Theory. Cr. 3.  
 631. Master's Thesis. Cr. 3.  
 731. Research. Cr. 3.  
 831. Doctor's Dissertation. Cr. 3.

*Second Term*

## For Undergraduates

231. American Government, Organization. Cr. 3.  
 232. American Government, Functions. Cr. 3.

## For Undergraduates and Graduates

- 4331. Ancient and Medieval Political Theory. Cr. 3.
- 4322. State Government. Cr. 3.
- 4334. American Political Theory. Cr. 3.
- 4361. United States Foreign Policy. Cr. 3.
- 4364. International Law. Cr. 3.

## For Graduates

- 531. Readings and Research. Cr. 3.
- 539. Seminar In National Security Affairs. Cr. 3.
- 631. Master's Thesis. Cr. 3.
- 731. Research. Cr. 3.
- 831. Doctor's Dissertation. Cr. 3.

## Health, Physical Education, and Recreation — Men

Ramon W. Kireilis, Head

*First Term*For Undergraduates  
(Men)

- 1113. Individual Activities.
  - Beginning Bowling. Cr. 1.
  - Advanced Golf. Cr. 1.
  - Beginning Golf. Cr. 1.
  - Beginning Swimming. Cr. 1.
  - Beginning Tennis. Cr. 1.

For Undergraduates and Graduates  
(Men)

- 221. Theory and Practice of Individual Sports. Cr. 2.
- 230. Methods of Teaching Health in the Elementary and Secondary School. Cr. 3.
- 4321. Methods and Techniques of Driver Education. Cr. 3.
- 4326. Safety Education. Cr. 3.

For Graduates  
(Men)

- 531. Administration of Physical Education. Cr. 3.
- 532. Supervision of Physical Education. Cr. 3.
- 536. Problems in Health, Physical Education, and Recreation. Cr. 3.
- 5322. Organization and Administration of Interscholastic and Intercollegiate Athletic Programs. Cr. 3.
- 630. Master's Report. Cr. 3.
- 631. Master's Thesis. Cr. 3.

*Second Term*For Undergraduates  
(Men)

- 1113. Individual Activities.
  - Beginning Bowling. Cr. 1.
  - Beginning Golf. Cr. 1.
  - Beginning Swimming. Cr. 1.
- 1114. Dual Activities.
  - Beginning Tennis. Cr. 1.
- 3311. Methods of Teaching Physical Education in Secondary Schools. Cr. 3.

**For Graduates  
(Men)**

5324. Organization and Administration of Intramural Sports Cr. 3.  
 536. Problems in Health, Physical Education, and Recreation Cr. 3.  
 631. Master's Thesis. Cr. 3.

## Health, Physical Education, and Recreation — Women

*First Term*

Margaret E. Wilson, Acting Head

**For Undergraduates  
(Women)**

111. Body Conditioning. Cr. 1.  
 114. Individual and Dual Activities.  
     Beginning Archery. Cr. 1.  
     Beginning Badminton. Cr. 1.  
     Beginning Bowling. Cr. 1.  
     Beginning Fencing. Cr. 1.  
     Beginning Golf. Cr. 1.  
     Beginning Tennis. Cr. 1.  
 115. Team Activities.  
     Beginning Volleyball. Cr. 1.

**(Men and Women)**

113. Rhythmic Activities.  
     Beginning Folk Dance. Cr. 1.  
 133. Personal and Community Hygiene. Cr. 3.  
 230. Methods of Teaching Health in the Elementary and Secondary  
     Schools. Cr. 3.  
 233. Methods of Teaching Physical Education in the Elementary Schools.  
     Cr. 3.

**For Graduates  
(Men and Women)**

535. Techniques of Research in Health, Physical Education, and Recrea-  
     tion. Cr. 3.  
 536. Problems in Health, Physical Education, and Recreation. Cr. 3.  
 630. Master's Report. Cr. 3.  
 631. Master's Thesis. Cr. 3.

*Second Term*

Mrs. Mary Seymour Owens, Acting Head

**For Undergraduates  
(Women)**

111. Body Conditioning. Cr. 1.  
 114. Individual and Dual Activities.  
     Beginning Archery. Cr. 1.  
     Beginning Bowling. Cr. 1.  
     Beginning Golf. Cr. 1.  
     Beginning Ice Skating. Cr. 1.  
     Beginning Tennis. Cr. 1.  
 115. Team Activities.  
     Beginning Volleyball. Cr. 1.

## (Men and Women)

- 113. Rhythmic Activities.  
Beginning Folk Dance. Cr. 1.
- 230. Methods of Teaching Health in the Elementary and Secondary Schools. Cr. 3.
- 233. Methods of Teaching Physical Education in the Elementary Schools. Cr. 3.

For Graduates  
(Men and Women)

- 536. Problems in Health, Physical Education, and Recreation. Cr. 3.
- 630. Master's Report. Cr. 3.
- 631. Master's Thesis. Cr. 3.

## History

David M. Vigness, Head

*First Term*

## For Undergraduates

- 131. Development of Civilizations. Cr. 3.
- 132. Development of Civilizations. Cr. 3.
- 231. History of the United States to 1865. Cr. 3.
- 232. History of the United States since 1865. Cr. 3.
- 330. History of Texas. Cr. 3.

## For Undergraduates and Graduates

- 4327. The American Frontier to 1803. Cr. 3.
- 4341. Modern Germany. Cr. 3.
- 4355. Africa. Cr. 3.
- 4367. Europe, 1870-1918. Cr. 3.
- 4374. Modern Russia. Cr. 3.

## For Graduates

- 534. Historical Methods and Historiography. Cr. 3.
- 5314. Studies in the Frontier and Western American History. Cr. 3.
- 5315. Problems in American History. Cr. 3.
- 5316. Studies in Modern European History. Cr. 3.
- 5319. Studies in Afro-Asian History. Cr. 3.
- 631. Master's Thesis. Cr. 3.  
Enrollment required at least twice.
- 634. Seminar in American History. Cr. 3.
- 731. Doctor's Research. Cr. 3.
- 831. Doctor's Dissertation. Cr. 3.  
Enrollment required at least four times.

*Second Term*

## For Undergraduates

- 131. Development of Civilizations. Cr. 3.
- 231. History of the United States to 1865. Cr. 3.
- 232. History of the United States since 1865. Cr. 3.
- 330. History of Texas. Cr. 3.

## For Undergraduates and Graduates

- 435. The Jacksonian Period. Cr. 3.
- 437. Social and Cultural History of the United States since 1865. Cr. 3.

4323. Spanish North America. Cr. 3.  
 4337. The United States since 1932. Cr. 3.  
 4361. Classical Civilizations: Greece and Rome. Cr. 3.

*For Graduates*

5312. Studies in Recent United States History. Cr. 3.  
 5313. Studies in United States Social and Cultural History. Cr. 3.  
 631. Master's Thesis. Cr. 3.  
     Enrollment required at least twice.  
 633. Seminar in Southwestern History. Cr. 3.  
 731. Doctor's Research. Cr. 3.  
 831. Doctor's Dissertation. Cr. 3.  
     Enrollment required at least four times.

## Journalism

W. E. Garets, Head

*First Term*

*For Undergraduates and Graduates*

411. Special Problems in Journalism. Cr. 1-3.  
 432. Journalism for the High School Teacher. Cr. 3.

## Mathematics

Patrick L. Odell, Head

*First Term*

*For Undergraduates\**

131. Trigonometry. Cr. 3.  
 133. College Algebra. Cr. 3.  
 135. Introductory College Mathematics. Cr. 3.  
 136. Elements of Mathematical Systems. Cr. 3.  
 137. Introductory Mathematical Analysis. Cr. 3.  
 138. Introductory Mathematical Analysis. Cr. 3.  
 151. \*\*Mathematics for Engineers I. Cr. 5.  
 152. \*\*Mathematics for Engineers II. Cr. 5.  
 232. Analytic Geometry and Calculus III. Cr. 3.  
 233. Linear Algebra. Cr. 3.  
 235. \*\*\*Mathematics for Engineers III. Cr. 3.  
 332. Differential Equations I. Cr. 3.  
 335. Higher Mathematics for Engineers and Scientists I. Cr. 3.  
 3318. Finite Mathematical Structures. Cr. 3.

*For Undergraduates and Graduates*

434. Advanced Calculus. Cr. 3.  
 4312. Numerical Mathematical Analysis. Cr. 3.  
 4314. Mathematical Statistics. Cr. 3.  
 4316. Introductory Point-Set Topology. Cr. 3.  
 4321. Elementary Modern Algebra. Cr. 3.

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\* Before enrolling for any mathematics course, the beginning freshman should consult with his major adviser or the Head of the Department of Mathematics regarding placement procedures.

\*\* Mathematics 151 and 152 are the first two courses in the Analytic Geometry and Calculus sequence for mathematics and science majors.

\*\*\* Mathematics 235 is the equivalent of Mathematics 331, Analytic Geometry and Calculus IV, and may be taken in place of Mathematics 331.

**For Graduates**

531. Advanced Problems (Intermediate Analysis). Cr. 3.  
 531. Advanced Problems (Approximation Theory). Cr. 3.  
 5321. Methods of Applied Mathematics I. Cr. 3.  
 5331. Advanced Topics in Analysis I. Cr. 3.  
 5335. Advanced Mathematics for Teachers I. Cr. 3.  
 5374. Advanced Mathematical Statistics I. Cr. 3.  
 631. Master's Thesis. Cr. 3.  
 831. Doctor's Dissertation. Cr. 3.

*Second Term***For Undergraduates**

131. Trigonometry. Cr. 3.  
 133. College Algebra. Cr. 3.  
 135. Introductory College Mathematics. Cr. 3.  
 138. Introductory Mathematical Analysis. Cr. 3.  
 151. Mathematics for Engineers I. Cr. 5.  
 152. Mathematics for Engineers II. Cr. 5.  
 235. Mathematics for Engineers III. Cr. 3.  
 335. Higher Mathematics for Engineers and Scientists I. Cr. 3.  
 336. Higher Mathematics for Engineers and Scientists II. Cr. 3.  
 337. College Geometry. Cr. 3.  
 3318. Finite Mathematical Structures. Cr. 3.

**For Undergraduates and Graduates**

435. Advanced Calculus. Cr. 3.  
 4315. Mathematical Statistics. Cr. 3.  
 4324. Matrix Theory. Cr. 3.

**For Graduates**

531. Advanced Problems (Intermediate Analysis). Cr. 3.  
 531. Advanced Problems (Approximation Theory). Cr. 3.  
 5322. Methods of Applied Mathematics II. Cr. 3.  
 5332. Advanced Topics in Analysis II. Cr. 3.  
 5336. Advanced Mathematics for Teachers II. Cr. 3.  
 5375. Advanced Mathematical Statistics II. Cr. 3.

## Music

Gene Hemmle, Head

*First Term***APPLIED MUSIC**

(Private Instruction)

**For Undergraduates**

- 115, 116, 125, 126, 215, 216, 225, 226, 235, 236, 315, 316, 325, 326, 345, 346.  
 Cr. 1-4.  $\frac{3}{4}$  to  $1\frac{1}{2}$  lec. hrs.,  $7\frac{1}{2}$  to 21 prac. hrs. Baritone, Cornet,  
 Flute, French Horn, Harp, Organ, Piano, Trombone, Tuba, Viola,  
 Bassoon, Oboe, Violin, Violoncello, Harpsichord, Percussion.

**For Graduates**

- 425, 426, 435, 436, 445, 446, 535, 545. Cr. 2-4.  $\frac{3}{4}$  to  $1\frac{1}{2}$  lec. hrs.,  $7\frac{1}{2}$  to  
 21 prac. hrs. Baritone, Cornet, Flute, French Horn, Harp, Organ,  
 Piano, Trombone, Tuba, Viola, Bassoon, Oboe, Violin, Violoncello,  
 Harpsichord, Percussion.



## MUSIC LITERATURE

For Undergraduates

238. Heritage of Music. Cr. 3.

## MUSIC EDUCATION

For Undergraduates

231. Music for Classroom Teachers. Cr. 3.

For Graduates

530. Seminar in Music Education. Cr. 3.  
 534. Marching Band Direction. Cr. 3.  
 537. Instrumental Repertoire. Cr. 3.  
 630. Master's Report. Cr. 3.  
 631. Master's Thesis. Cr. 3.

*Second Term*

Robert Deahl, Acting Head

## APPLIED MUSIC

(Private Instruction)

For Undergraduates

- 115, 116, 125, 126, 215, 216, 225, 226, 235, 236, 315, 316, 325, 326, 345, 346.  
 Cr. 1-4.  $\frac{3}{4}$  to  $1\frac{1}{2}$  lec. hrs.,  $7\frac{1}{2}$  to 21 prac. hrs. Baritone, Cornet,  
 Flute, French Horn, Organ, Piano, Trombone, Tuba, Viola, Bassoon,  
 Oboe, Violin, Violoncello, Harpsichord.

For Graduates

- 425, 426, 435, 436, 445, 446, 535, 545. Cr. 2-4.  $\frac{3}{4}$  to  $1\frac{1}{2}$  lec. hrs.,  $7\frac{1}{2}$   
 to 21 prac. hrs. Baritone, Cornet, Fluet, French Horn, Organ,  
 Piano, Trombone, Tuba, Viola, Bassoon, Oboe, Violin, Violoncello,  
 Harpsichord.

## MUSIC LITERATURE

For Undergraduates

239. Heritage of Music. Cr. 3.

For Graduates

531. Seminar on Music Theory. Cr. 3.

## MUSIC EDUCATION

For Undergraduates

231. Music for Classroom Teachers. Cr. 3.  
 232. Elementary Music Principles, Practices, and Materials. Cr. 3.

For Graduates

531. Seminar in Music Education. Cr. 3.  
 532. Choral Repertoire. Cr. 3.  
 630. Master's Report. Cr. 3.  
 631. Master's Thesis. Cr. 3.

## Physics

H. C. Thomas, Head

*First Term*

For Undergraduates

141. General Physics. Cr. 4. 9 lec. hrs., 9 lab. hrs.  
 143. Principles of Physics I. Cr. 4. 9 lec. hrs., 9 lab. hrs.

241. Principles of Physics II. Cr. 4. 9 lec. hrs., 9 lab. hrs.  
 335. Electricity and Magnetism. Cr. 3. 9 lec. hrs.  
 434. Mechanics. Cr. 3. 9 lec. hrs.

**For Graduates**

536. Advanced Dynamics. Cr. 3. 9 lec. hrs.  
 631. Master's Thesis. Cr. 3.  
 831. Doctor's Dissertation. Cr. 3.

*Second Term*

**For Undergraduates**

142. General Physics. Cr. 4. 9 lec. hrs., 9 lab. hrs.  
 241. Principles of Physics II. Cr. 4. 9 lec. hrs., 9 lab. hrs.  
 242. Principles of Physics III. Cr. 4. 9 lec. hrs., 9 lab. hrs.  
 336. Electricity and Magnetism. Cr. 3. 9 lec. hrs.  
 435. Mechanics. Cr. 3. 9 lec. hrs.

**For Graduates**

535. Introduction to Statistical Physics. Cr. 3. 9 lec. hrs.  
 631. Master's Thesis. Cr. 3.  
 831. Doctor's Dissertation. Cr. 3.

## Philosophy

Ivan L. Little, Head

*First Term*

**For Undergraduates**

230. Introduction to Philosophy. Cr. 3.

## Psychology

Theodore Andreychuk, Head

*First Term*

**For Undergraduates**

230. General Psychology I. Cr. 3.  
 331. Child Psychology. Cr. 3.  
 335. Adolescent Psychology. Cr. 3.  
 343. Statistical Methods. Cr. 4.  
 435. Abnormal Psychology. Cr. 3.  
 436. Personality Development. Cr. 3.  
 4317. The Psychology of Learning. Cr. 3.  
 4326. Individual Problems Course. Cr. 3.

**For Graduates**

532. Problems in Psychology. Cr. 3.  
 534. Practicum in Psychological Testing. Cr. 3.  
 5314. Tests and Measurements. Cr. 3.  
 5316. Introduction to Adjustment Counseling and Psychotherapy. Cr. 3.  
 5317. Techniques of Counseling: Career Guidance. Cr. 3.  
 5318-1. Practicum in Techniques of Counseling. Cr. 3.  
 5318-2. Practicum in Techniques of Counseling. Cr. 3.  
 5325. Case Studies in Vocational Rehabilitation. Cr. 3.  
 5355. Seminar in Comparative Psychology. Cr. 3.

- 5361-1. Advanced Practicum in Counseling and Clinical Psychology. Cr. 3.  
 5361-2. Advanced Practicum in Counseling and Clinical Psychology. Cr. 3.  
 5362. Internship in Counseling and Clinical Psychology. Cr. 3.  
 631. Master's Thesis. Cr. 3.  
 831. Doctor's Dissertation. Cr. 3.

### *Second Term*

#### **For Undergraduates**

230. General Psychology I. Cr. 3.  
 331. Child Psychology. Cr. 3.  
 332. Mental Health. Cr. 3.  
 335. Adolescent Psychology. Cr. 3.  
 434. Introduction to Social Psychology. Cr. 3.  
 436. Personality Development. Cr. 3.  
 4319. Human Learning. Cr. 3.  
 4326. Individual Problems Course. Cr. 3.

#### **For Graduates**

532. Problems in Psychology. Cr. 3.  
 534. Practicum in Psychological Testing. Cr. 3.  
 539. Occupational Information. Cr. 3.  
 5318-1. Practicum in Techniques of Counseling. Cr. 3.  
 5318-2. Practicum in Techniques of Counseling. Cr. 3.  
 5325. Case Studies in Vocational Rehabilitation. Cr. 3.  
 5354. Seminar in Perception. Cr. 3.  
 5361-1. Advanced Practicum in Counseling and Clinical. Cr. 3.  
 5361-2. Advanced Practicum in Counseling and Clinical. Cr. 3.  
 5362. Internship in Counseling and Clinical Psychology. Cr. 3.  
 631. Master's Thesis. Cr. 3.  
 831. Doctor's Dissertation. Cr. 3.

## **Sociology and Anthropology**

W. G. Steglich, Head

### *First Term*

#### **SOCIOLOGY**

#### **For Undergraduates**

230. Introduction to Sociology. Cr. 3.  
 235. The Sociology of Marriage. Cr. 3.

#### **For Undergraduates and Graduates**

4311. The Sociology of the Person. Cr. 3.

#### **For Graduates**

531. Sociological Theory. Cr. 3.  
 5335. Society and Its Institutions. Cr. 3.  
 631. Master's Thesis. Cr. 3.

#### **ANTHROPOLOGY**

#### **For Undergraduates**

232. Cultural Anthropology. Cr. 3.

*Second Term***SOCIOLOGY***For Undergraduates*

230. Introduction to Sociology. Cr. 3.  
 233. Current Social Problems. Cr. 3.

*For Undergraduates and Graduates*

4313. American Minority Problems. Cr. 3.

*For Graduates*

531. Sociological Theory. Cr. 3.  
 631. Master's Thesis. Cr. 3.

**ANTHROPOLOGY***For Undergraduates*

232. Cultural Anthropology. Cr. 3.

**Speech**

P. Merville Larson, Head

*First Term**For Undergraduates*

133. Voice and Diction. Cr. 3.  
 231. Introduction to Theater and Cinema. Cr. 3.  
 239. Speech Development for Personal Competence. Cr. 3.  
 317. Radio-Television Activities. Cr. 1.  
 319. Theater Activities. Cr. 1.  
 338. Business and Professional Speech. Cr. 3.  
 432. Senior Projects in Speech. Cr. 3.

*For Undergraduates and Graduates*

434. Principles of Audiometry. Cr. 3.  
 4321. Supervised Clinical Practice in Speech Correction. Cr. 3.  
 4322. Supervised Clinical Practice in Speech Correction. Cr. 3.  
 4323. Supervised Clinical Practice in Hearing and Deafness. Cr. 3.  
 4324. Supervised Clinical Practice in Hearing and Deafness. Cr. 3.

*For Graduates*

531. Studies and Problems in Speech. Cr. 2.  
 535. Seminar in Audiology:  
     Psychophysics of Audition. Cr. 3.  
 538. Educational Television. Cr. 3.  
 5322. Theory and Practice of Stage Lighting. Cr. 3.  
 5324. British and American Public Address. Cr. 3.  
 5325. Basic Speech for Elementary Teachers. Cr. 3.  
 5326. Graduate Clinical Practice—Speech.  
 5327. Graduate Clinical Practice—Hearing.  
 631. Master's Thesis. Cr. 3.  
     Enrollment required at least twice.

*Second Term**For Undergraduates*

239. Speech Development for Personal Competence. Cr. 3.  
 319. Theater Activities. Cr. 1.  
 338. Business and Professional Speech. Cr. 3.  
 432. Senior Projects in Speech. Cr. 3.

**For Undergraduates and Graduates**

- 4319. Speech Correction Methods. Cr. 3.
- 4321. Supervised Clinical Practice in Speech Correction. Cr. 3.
- 4322. Supervised Clinical Practice in Speech Correction. Cr. 3.
- 4323. Supervised Clinical Practice in Hearing and Deafness. Cr. 3.
- 4324. Supervised Clinical Practice in Hearing and Deafness. Cr. 3.
- 4325. Directing School Speech Activities. Cr. 3.

**For Graduates**

- 531. Studies and Problems in Speech. Cr. 3.
- 536. Seminar in Speech Pathology: Articulation and Voice Disorders. Cr. 3.
- 631. Master's Thesis. Cr. 3.  
Enrollment required at least twice.

**Biblical Literature**

James Houston Hodges, Head

*First Term***For Undergraduates**

- 110. Introduction to Biblical Studies. Cr. 1.
- 131. Introduction to the Old Testament. Cr. 3.
- 132. Introduction to the New Testament. Cr. 3.
- 236. The Life and Teachings of Jesus. Cr. 3.
- 323. The Letter to the Romans. Cr. 2.

*Second Term***For Undergraduates**

- 131. Introduction to the Old Testament. Cr. 3.

**School of Business Administration**

Course offerings in every department of the School of Business Administration will comprise the curricula for the 1967 summer session. The entering freshman may find it advantageous to begin his degree program at this time, while the advanced student may wish to take the opportunity to accelerate the completion of his degree requirements. For these reasons, programs of study are provided at all levels from freshman through graduate standing.

At the graduate level, the School of Business Administration provides courses during the summer in each of its departments. Programs are offered in all departments leading to the Degree of Master of Business Administration, in the Department of Economics leading to the Master of Arts, and Department of Business Education leading to the Master of Education. Two new degree programs will be initiated in the Fall of 1967: Doctor of Business Administration and Master of Science in Accounting.

## Accounting

Reginald Rushing, Head

### *First Term*

#### For Undergraduates

- 121. Elementary Mechanical Coding. Cr. 2. 5½ lec. hrs., 3 lab. hrs.
- 232. Electronic Data Processing I. Cr. 3.
- 234. Elementary Accounting I. Cr. 3. 7½ lec. hrs., 3 lab. hrs.
- 235. Elementary Accounting II. Cr. 3. 7½ lec. hrs., 3 lab. hrs.
- 246. Machine Accounting. Cr. 4. 7½ lec. hrs., 7½ lab. hrs.
- 331. Managerial Accounting. Cr. 3.
- 332. Analysis of Financial Statements. Cr. 3.
- 334. Intermediate Accounting I. Cr. 3.
- 336. Principles of Cost Accounting. Cr. 3.

#### For Undergraduates and Graduates

- 430. Income Tax Accounting. Cr. 3.
- 434. Advanced Accounting I. Cr. 3.
- 436. Accounting Systems. Cr. 3.
- 437. Principles of Auditing. Cr. 3.

#### For Graduates

- 531. Controllership. Cr. 3.
- 5311. Advanced Accounting Problems I. Cr. 3.
- 5312. Advanced Accounting Problems II. Cr. 3.
- 5341. Managerial Accounting I. Cr. 3.
- 537. C.P.A. Review II. Cr. 3.
- 630. Master's Report. See Business Administration.
- 631. Master's Thesis. See Business Administration.

### *Second Term*

#### For Undergraduates

- 121. Elementary Mechanical Coding. Cr. 2. 5½ lec. hrs., 3 lab. hrs.
- 232. Electronic Data Processing I. Cr. 3.
- 234. Elementary Accounting I. Cr. 3. 7½ lec. hrs., 3 lab. hrs.
- 235. Elementary Accounting II. Cr. 3. 7½ lec. hrs., 3 lab. hrs.
- 246. Machine Accounting. Cr. 4. 7½ lec. hrs., 7½ lab. hrs.
- 322. Payroll Accounting. Cr. 2.
- 331. Managerial Accounting. Cr. 3.
- 332. Analysis of Financial Statements. Cr. 3.
- 335. Intermediate Accounting II. Cr. 3.

#### For Undergraduates and Graduates

- 431. Advanced Income Tax Accounting. Cr. 3.
- 435. Advanced Accounting II. Cr. 3.
- 438. Advanced Auditing. Cr. 3.

#### For Graduates

- 536. C.P.A. Review I. Cr. 3.
- 5311. Advanced Accounting Problems I. Cr. 3.
- 5312. Advanced Accounting Problems II. Cr. 3.
- 5341. Managerial Accounting I. Cr. 3.
- 630. Master's Report. See Business Administration.
- 631. Master's Thesis. See Business Administration.

## Business Administration

### *First Term*

#### For Graduates

- 5341. Research Methods in Business. Cr. 3.
- 630. Master's Report. Cr. 3.
- 631. Master's Thesis. Cr. 3.

### *Second Term*

#### For Graduates

- 630. Master's Report. Cr. 3.
- 631. Master's Thesis. Cr. 3.

## Business Education and Secretarial Administration

William R. Pasewark, Head

### *First Term*

#### BUSINESS EDUCATION

#### For Graduates

- 530. Foundations of Business Education. Cr. 3.
- 535. Seminar in Business Education (Cooperative Vocational Education Programs) June 26 - July 13.
- 630. Master's Report. See Business Administration.
- 631. Master's Thesis. See Business Administration.

#### SECRETARIAL ADMINISTRATION

#### For Undergraduates

- 327. Report Writing. Cr. 2.
- 333. Business Correspondence. Cr. 3.

### *Second Term*

Irol W. Balsley, Acting Head

#### BUSINESS EDUCATION

#### For Graduates

- 538. Research and Improvement of Instruction in Shorthand. Cr. 3.  
July 19 - August 4.
- 539. Research and Improvement of Instruction in Typewriting. Cr. 3.  
August 7 - August 22.
- 630. Master's Report. See Business Administration.
- 631. Master's Thesis. See Business Administration.

#### SECRETARIAL ADMINISTRATION

#### For Undergraduates

- 327. Report Writing. Cr. 2.
- 333. Business Correspondence. Cr. 3.

## Economics

Robert L. Rouse, Head

### *First Term*

#### For Undergraduates

- 133. The Development of American Business and Economic Institutions I. Cr. 3.
- 231. Principles of Economics I. Cr. 3.
- 232. Principles of Economics II. Cr. 3.
- 331. Economics of Business Enterprise. Cr. 3.

#### For Graduates

- 531. Economic Research. Cr. 3.
- 5335. Human Geography. Cr. 3.
- 5341. Price and Income Theory. Cr. 3.
- 5352. Advanced Macro-Economic Analysis. Cr. 3.
- 537. Seminar in Public Finance. Cr. 3.
- 630. Master's Report. See Business Administration.
- 631. Master's Thesis. See Business Administration.

### *Second Term*

#### For Undergraduates

- 133. The Development of American Business and Economic Institutions I. Cr. 3.
- 134. The Development of American Business and Economic Institutions II. Cr. 3.
- 231. Principles of Economics I. Cr. 3.
- 232. Principles of Economics II. Cr. 3.
- 237. Economic Geography. Cr. 3.

#### For Graduates

- 531. Economic Research. Cr. 3.
- 5351. Advanced Micro-Economic Analysis. Cr. 3.
- 630. Master's Report. See Business Administration.
- 631. Master's Thesis. See Business Administration.

## Finance

Robert L. Rouse, Head

### *First Term*

#### FINANCE

#### For Undergraduates

- 331. Corporation Finance. Cr. 3.

#### For Undergraduates and Graduates

- 433. Corporate Financial Problems and Cases. Cr. 3.
- 434. Investments. Cr. 3.
- 438. Bank Administration. Cr. 3.

#### For Graduates

- 531. Current Financial Problems. Cr. 3.
- 630. Master's Report. See Business Administration.
- 631. Master's Thesis. See Business Administration.



## BUSINESS LAW

## For Undergraduates

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

*Second Term*

## FINANCE

## For Undergraduates

231. Personal Finance. Cr. 3.  
 331. Corporation Finance. Cr. 3.  
 333. Principles of Money, Banking, and Credit. Cr. 3.  
 335. General Insurance. Cr. 3.

## For Undergraduates and Graduates

431. The Federal Reserve System. Cr. 3.  
 531. Current Financial Problems. Cr. 3.  
 533. Seminar in Investment Analysis. Cr. 3.  
 5341. Current Business Financial Practices. Cr. 3.  
 536. The Money and Capital Markets. Cr. 3.  
 630. Master's Report. See Business Administration.  
 631. Master's Thesis. See Business Administration.

## BUSINESS LAW

## For Undergraduates

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

**Management**

V. P. Luchsinger, Acting Head

*First Term*

## For Undergraduates

110. Professional Careers in Business. Cr. 1.  
 331. Industrial Management. Cr. 3.  
 333. Collective Bargaining. Cr. 3.  
 432. Administrative Policy. Cr. 3.  
 433. Recent Labor Legislation. Cr. 3.

## For Graduates

531. Current Problems in Management. Cr. 3.  
 536. Management of Human Resources. Cr. 3.  
 5342. Production Management. Cr. 3.  
 630. Master's Report. See Business Administration.  
 631. Master's Thesis. See Business Administration.

*Second Term*

## For Undergraduates

331. Industrial Management. Cr. 3.  
 334. Personnel Administration. Cr. 3.  
 439. Production II. Cr. 3.

*For Graduates*

5341. Systems Management. Cr. 3.  
 5351. Decision Theory and Quantitative Methods. Cr. 3.  
 630. Master's Report. See Business Administration.  
 631. Master's Thesis. See Business Administration.

**Marketing**

John A. Ryan, Head

*First Term**For Undergraduates*

246. Introduction to Business Statistics. Cr. 4. 7½ lec. hrs., 7½ lab. hrs.  
 332. Principles of Marketing. Cr. 3.  
 334. Principles of Advertising. Cr. 3.  
 335. Principles of Retailing. Cr. 3.  
 339. Principles of Salesmanship. Cr. 3.

*For Undergraduates and Graduates*

433. Marketing Problems. Cr. 3.  
 436. Marketing Research and Analysis. Cr. 3.

*For Graduates*

- 536, 537. Individual Study in Marketing I, II. Cr. 3 each.  
 5341. Marketing Administration. Cr. 3.  
 630. Master's Report. See Business Administration.  
 631. Master's Thesis. See Business Administration.

*Second Term*

Robert D. Amason, Acting Head

*For Undergraduates*

246. Introduction to Business Statistics. Cr. 4. 7½ lec. hrs., 7½ lab. hrs.  
 332. Principles of Marketing. Cr. 3.  
 334. Principles of Advertising. Cr. 3.  
 339. Principles of Salesmanship. Cr. 3.

*For Graduates*

- 536, 537. Individual Study in Marketing I, II. Cr. 3 each.  
 5341. Marketing Administration. Cr. 3.  
 630. Master's Report. See Business Administration.  
 631. Master's Thesis. See Business Administration.

## School of Engineering

The summer program in the School of Engineering makes available to the student course work at all levels from freshman through graduate. Although complete curricula in all phases of engineering will not

be available, the offerings are planned to assist students wishing to accelerate their course of study.

Entering freshmen planning to major in any of the engineering programs or the architecture, construction option, are advised to take, in addition to the Scholastic Aptitude Test (SAT) required of all students admitted to the College, the Level I Achievement Test in Mathematics. Both are offered through the College Entrance Examination Board, Box 592, Princeton, New Jersey. The Level I test is used to qualify students to begin their first year of mathematics with analytics and calculus. Those who make low scores, or do not take the test, will be required to complete mathematics courses in algebra and/or trigonometry before beginning their first course in analytics and calculus.

All the work of the freshman year will be available if the demand for these courses is sufficient. The entering freshman will devote his time to first-semester courses. Any high school graduate who desires to study engineering, but who does not meet requirements due to a low score on the achievement test, or who is deficient in algebra or trigonometry, could with profit attend the summer session in order to remove these conditions.

Students intending to transfer to Texas Technological College to study engineering may find the summer session of value in order to correct irregularities in their schedules or to take prerequisite subjects. For information not contained in this bulletin consult the current *General Catalog*, or write to the Dean of Admissions for information on entrance, or to the Dean of Engineering in regard to the course of study.

## Architecture and Allied Arts

Nolan E. Barrick, Head

### *First Term*

#### ALLIED ARTS

For Undergraduates and Graduates

131. History of Art. Cr. 3. 7½ lec. hrs.  
421. Art Workshop. Cr. 2. 18 lab. hrs.

#### ARCHITECTURE

For Undergraduates and Graduates

121. Freehand Drawing I. Cr. 2. 18 lab. hrs.  
133. Introduction to Design & Theory. Cr. 3. 6 lec. hrs., 3 disc. hrs.  
4331. Special Problems in Architecture and City Planning. Cr. 3. 7½ lec. hrs.  
241. Architectural Design. Cr. 4. 36 lab. hrs.

### *Second Term*

#### ALLIED ARTS

For Undergraduates and Graduates

132. History of Art. Cr. 3. 7½ lec. hrs.  
421. Art Workshop. Cr. 2. 18 lab. hrs.

#### ARCHITECTURE

For Undergraduates

134. Architectural Graphics. Cr. 3. 3 lec. hrs., 15 lab. hrs.  
224. Freehand Drawing III. Cr. 2. 18 lab. hrs.  
242. Architectural Design. Cr. 4. 36 lab. hrs.

## Chemical Engineering

A. J. Gully, Head

### *First Term*

#### **For Undergraduates**

330. Engineering Materials Science. Cr. 3.  
3311. Chemical Engineering I. Cr. 3.

#### **For Undergraduates and Graduates**

4331. Special Problems in Chemical Engineering. Cr. 3.  
4332. Special Experimental Problems in Chemical Engineering. Cr. 3.

#### **For Graduates**

5331. Special Problems in Chemical Engineering. Cr. 3.  
631. Master's Thesis. Cr. 3.  
731, 732. Doctor's Research. Cr. 3 each.  
831. Doctor's Dissertation. Cr. 3.

### *Second Term*

#### **For Undergraduates**

330. Engineering Materials Science. Cr. 3.  
3311. Chemical Engineering II. Cr. 3.

#### **For Graduates**

5331. Special Problems in Chemical Engineering. Cr. 3.  
631. Master's Thesis. Cr. 3.  
731, 732. Doctor's Research. Cr. 3 each.  
831. Doctor's Dissertation. Cr. 3.

## Civil Engineering

Keith R. Marmion, Head

### *First Term*

#### **For Undergraduates**

233. Statics. Cr. 3.  
332. Dynamics. Cr. 3.  
337. Structural Mechanics. Cr. 3.  
3311. Mechanics of Solids. Cr. 3.  
435. Simple Theory of Reinforced Concrete. Cr. 3.  
4121. Civil Engineering Seminar. Cr. 1.  
4331. Special Problems in Civil Engineering. Cr. 3.

#### **For Graduates**

5331. Advanced Work in Specific Fields. Cr. 3.  
5342. Advanced Plastic Design. Cr. 3.  
630. Master's Report. Cr. 3.  
631. Master's Thesis. Cr. 3.  
731. Research. Cr. 3.

### *Second Term*

#### **For Undergraduates**

233. Statics. Cr. 3.  
332. Dynamics. Cr. 3.  
338. Structural Mechanics. Cr. 3.

- 3351. Mechanics of Fluids. Cr. 3.
- 4121. Civil Engineering Seminar. Cr. 1.
- 4331. Special Problems in Civil Engineering. Cr. 3.

**For Graduates**

- 5331. Advanced Work in Specific Fields.
- 630. Master's Report.
- 631. Master's Thesis.
- 731. Research. Cr. 3.

## Electrical Engineering

R. H. Seacat, Acting Head

*First Term*

**For Undergraduates**

- 231. Principles of Electrical Engineering I. Cr. 3.
- 233. Electrical Systems Analysis. Cr. 3.
- 3311. Electronics I. Cr. 3.
- 3321. Circuit Theory I. Cr. 3.
- 3341. Electromagnetic Theory I. Cr. 3.
- 3361. Electric and Magnetic Properties of Materials. Cr. 3.
- 4121. Electrical Engineering Seminar. Cr. 1.
- 4331. Special Problems in Electrical Engineering. Cr. 3.
- 4351. Energy Conversion I. Cr. 3.
- 4353. Feedback Control Systems. Cr. 3.

**For Graduates**

- 5315. Sampled Data and Digital Control Systems. Cr. 3.
- 5327. Multistage Decision Processes. Cr. 3.
- 5331. Theoretical Investigations in Engineering Applications. Cr. 3.
- 5341. Advanced Electromagnetic Theory I. Cr. 3.
- 630. Master's Report. Cr. 3.
- 731. Research. Cr. 3.
- 831. Doctor's Dissertation. Cr. 3.

*Second Term*

**For Undergraduates**

- 232. Principles of Electrical Engineering II. Cr. 3.
- 234. Electronic Instrumentation. Cr. 3.
- 3312. Electronics II. Cr. 3.
- 3322. Circuit Theory II. Cr. 3.
- 3323. Methods of Circuit Analysis. Cr. 3.
- 3342. Electromagnetic Theory II. Cr. 3.
- 4121. Electrical Engineering Seminar. Cr. 1.
- 4317. Electronics III. Cr. 3.
- 4318. Physical Electronics. Cr. 3.
- 4331. Special Problems in Electrical Engineering. Cr. 3.
- 4352. Energy Conversion II. Cr. 3.

**For Graduates**

- 5323. Advanced Network Theory II. Cr. 3.
- 5332. Experimental Investigation in Engineering Application. Cr. 3.
- 5342. Advanced Electromagnetic Theory II. Cr. 3.
- 5354. Direct Energy Conversion. Cr. 3.
- 630. Master's Report. Cr. 3.

732. Research. Cr. 3.  
831. Doctor's Dissertation. Cr. 3.

## Industrial Engineering and Engineering Drawing

R. A. Dudek, Head

### *First Term*

#### INDUSTRIAL ENGINEERING

##### For Undergraduates

321. Computer Programming Techniques. Cr. 2.  
3311. Principles of Industrial Engineering I. Cr. 3.  
3315. Industrial Statistics I. Cr. 3.  
4121. Industrial Engineering Seminar. Cr. 1.  
417. Industrial Statistics Problem Laboratory. Cr. 1.  
421. Materials Handling. Cr. 2.

##### For Graduates

5311. Analysis Techniques for Management. Cr. 3.  
631. Master's Thesis. Cr. 3.  
831. Doctor's Dissertation. Cr. 3.

#### ENGINEERING GRAPHICS

##### For Undergraduates

121. Engineering Graphics I. Cr. 2.

### *Second Term*

#### INDUSTRIAL ENGINEERING

##### For Undergraduates

321. Computer Programming Techniques. Cr. 2.  
3321. Principles of Industrial Engineering II. Cr. 3.  
3325. Industrial Statistics II. Cr. 3.  
3341. Work Control I. Cr. 3.  
4121. Industrial Engineering Seminar. Cr. 1.  
417. Industrial Statistics Problem Laboratory. Cr. 1.

##### For Graduates

5301. Advanced Work Analysis and Design. Cr. 3.  
5312. Analysis Techniques for Management. Cr. 3.  
631. Master's Thesis. Cr. 3.  
831. Doctor's Dissertation. Cr. 3.

#### ENGINEERING GRAPHICS

##### For Undergraduates

122. Engineering Graphics II. Cr. 2.

## Mechanical Engineering

L. J. Powers, Head

### *First Term*

##### For Undergraduates

3314. Mechanisms. Cr. 3.

3321. Engineering Thermodynamics I. Cr. 3.  
 3341. Materials I. Cr. 3.

**For Undergraduates and Graduates**

4121. Mechanical Engineering Seminar. Cr. 1.  
 4312. Mechanical Engineering Laboratory I. Cr. 3.  
 4314. Fluid Dynamics. Cr. 3.  
 4316. Dynamics. Cr. 3.  
 4333. Thermal Systems I. Cr. 3.

**For Graduates**

5326. Heat Transmission III. Cr. 3.  
 5331. Theoretical Studies in Advanced Topics. Cr. 3.  
 630. Master's Report. Cr. 3.  
 631. Master's Thesis. Cr. 3.  
 831. Doctor's Dissertation. Cr. 3.

*Second Term*

**For Undergraduates**

3315. Stress Analysis. Cr. 3.  
 3321. Engineering Thermodynamics I. Cr. 3.

**For Undergraduates and Graduates**

4121. Mechanical Engineering Seminar. Cr. 1.  
 4313. Mechanical Engineering Laboratory II. Cr. 3.  
 4315. Heat and Mass Transfer. Cr. 3.  
 4321. Engineering Thermodynamics II. Cr. 3.  
 4331. Special Problems in Mechanical Engineering. Cr. 3.  
 4334. Thermal Systems II. Cr. 3.

**For Graduates**

5331. Theoretical Studies in Advanced Topics. Cr. 3.  
 630. Master's Report. Cr. 3.  
 631. Master's Thesis. Cr. 3.  
 831. Doctor's Dissertation. Cr. 3.

## **Petroleum Engineering**

Philip Johnson, Acting Head

*First Term*

**For Undergraduates and Graduates**

4121. Engineering Seminar. Cr. 1.

*Second Term*

**For Undergraduates and Graduates**

4121. Engineering Seminar. Cr. 1.

## **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 a number of such courses and workshops. The courses carry varying semester-hour credit, depending upon length.

Detailed information is given in departmental listings in applied arts, clothing and textiles, food and nutrition, home economics education, and home and family life. Special short courses and workshops are described more fully in the Workshop and Short Course section of this Catalog.

## Applied Arts

Bill Lockhart, Head

### *First Term*

#### For Undergraduates

- 131. Design Applied to Daily Living. Cr. 3.
- 132. Introduction to Crafts. Cr. 3.
- 134. Techniques in Visual Expression in Applied Arts. Cr. 3.
- 337. Art in Elementary Education. Cr. 3.
- 3314. Design Problems. Cr. 3.
- 3314. Design Problems. Cr. 3. (June 6-23, Taos, New Mexico).
- 3314. Design Problems. Cr. 3. (June 26-July 15, Taos, New Mexico).

#### For Undergraduates and Graduates

- 411. Special Problems. Cr. 1.

#### For Graduates

- 511-A. Advanced Applied Arts Unit. Cr. 1.
- 511-B. Advanced Applied Arts Unit. Cr. 1. (June 6-10).
- 511-C. Advanced Applied Arts Unit. Cr. 1. (June 12-16).
- 511-D. Advanced Applied Arts Unit. Cr. 1. (June 19-23).
- 531-1. Special Problems. Cr. 3.
- 531-2. Special Problems. Cr. 3. (June 6-24).
- 531-3. Special Problems. Cr. 3. (June 6-23, Taos, New Mexico)
- 531-4. Special Problems. Cr. 3. (June 26-July 15, Taos, New Mexico).
- 537. Art for Exceptional Children. Cr. 3.

### *Second Term*

#### For Undergraduates

- 337. Art in Elementary Education. Cr. 3.
- 338. Art in Elementary Education. Cr. 3.
- 3314. Design Problems. Cr. 3.

#### For Graduates

- 511. Advanced Applied Arts Unit. Cr. 1.
- 531. Special Problems. Cr. 3.
- 5335. Theory and Practice of Art for Elementary Teachers. Cr. 3.

## Clothing and Textiles

Gene Shelden, Head

### *First Term*

#### For Undergraduates

- 131. Wardrobe Analysis, Construction, and Buying. Cr. 3.



237. Apparel Selection and Design. Cr. 3.  
 333. Problems in Upholstering and Draperies. Cr. 3.

**For Graduates**

- 511-A. Advanced Clothing Problems. Cr. 1. (July 5-10)  
 518. Seminar. Cr. 1.  
 531. Special Problems in Clothing and Textiles. Cr. 3.  
 5335. Textiles for Elementary Teachers. Cr. 3.

*Second Term*

**For Undergraduates**

131. Wardrobe Analysis, Construction, and Buying. Cr. 3.  
 332. Dressmaker Tailoring and Design. Cr. 3.

**For Undergraduates and Graduates**

- 411-A,B,C. Special Problems. Cr. 1 each.

**For Graduates**

- 511-B. Advanced Clothing Problems. Cr. 1. (July 17-21)  
 511-C. Advanced Clothing Problems. Cr. 1. (July 24-28)  
 631. Master's Thesis. Cr. 3.

## **Food and Nutrition**

Mina Lamb, Head

*First Term*

**For Undergraduates**

111. Food Service Workshop. Cr. 1 (June 19-24).  
 111. Food Service Workshop, advanced. Cr. 1. (June 26-30).  
 131. Nutrition and Food. Cr. 3.

**For Undergraduates and Graduates**

421. Advanced Food Production Management. Cr. 2. (June 9-21).

**For Graduates**

515. Special Aspects of Food. Cr. 1. (June 12-16).  
 515. Special Aspects of Nutrition. Cr. 1. (July 10-14).  
 631. Master's Thesis. Cr. 3.

*Second Term*

**For Graduates**

515. Special Aspects of Nutrition. Cr. 1. (July 18-22).  
 515. Special Aspects of Food. Cr. 1. (July 24-28).

## **Home Economics Education**

L. Ann Buntin, Head

*First Term*

**For Undergraduates**

331. Philosophy and Principles of Vocational Home Economics. Cr. 3.

**For Graduates**

533. Evaluation in Home Economics. Cr. 3.  
 534. Techniques of Research in Home Economics. Cr. 3.

536. Problems. Cr. 3.  
631. Master's Thesis. Cr. 3.

*Second Term*

**For Undergraduates and Graduates**

432. Methods of Teaching Home Economics. Cr. 3.

**For Graduates**

532. Curriculum Development in Home Economics. Cr. 3.  
(July 16-29, August 7-10).  
631. Master's Thesis. Cr. 3.

## Home and Family Life

Estelle H. Wallace, Head

*First Term*

**CHILD DEVELOPMENT AND FAMILY RELATIONS**

**For Undergraduates**

231. The Infant. Cr. 3.  
233. Child Growth and Development. Cr. 3.  
235. Preparation for Success in Marriage. Cr. 3.  
438. Exceptional Children in the Family. Cr. 3.  
461. Student Teaching in the Pre-School. Cr. 6.

**For Graduates**

5336. Advanced Interpersonal and Family Relations. Cr. 3.

**HOME MANAGEMENT**

**For Undergraduates**

232. General Home Management. Cr. 3.  
333. Household Equipment. Cr. 3.  
432. Home Management Living. Cr. 3. (Residence)  
432. Home Management Living. Cr. 3. (Nonresidence)

*Second Term*

**CHILD DEVELOPMENT AND FAMILY RELATIONS**

**For Undergraduates**

233. Child Growth and Development. Cr. 3.  
235. Preparation for Success in Marriage. Cr. 3.  
433. Family Relations. Cr. 3.

**HOME MANAGEMENT**

**For Undergraduates**

432. Home Management Living. Cr. 3. (Residence)

**For Graduates**

511. Studies in Home Management. Cr. 1.

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