

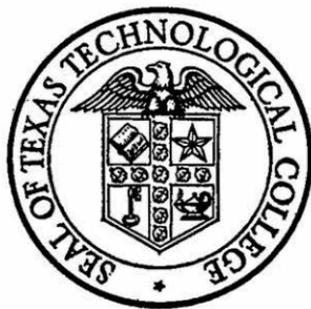
**BULLETIN
OF
TEXAS TECHNOLOGICAL COLLEGE**

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Summer School Catalog
1966



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College Calendar

Summer Session, 1966

First Term

- May 31 Tuesday. First term begins.
10 A.M., residence halls open for occupancy.
First meal, breakfast, Wednesday, June 1.
- June 1 Wednesday. 8 A.M., entering freshmen assemble.
8 A.M.-12 Noon; 1:30-5 P.M., registration.
- June 2 Thursday. 8 A.M.-12 Noon, registration.
- June 3 Friday. 7:20 A.M., classes begin.
- June 4 Saturday. Day of instruction for all classes.
- June 6 Monday. Only day on which students may initiate and complete action to change sections and add courses.
- June 16 Thursday. Grade of "W" will be given for all courses dropped on or before this date.
- June 18 Saturday. Day of instruction for all classes.
- July 4 Monday. Independence Day—College holiday.
- July 5 Tuesday. Last day for students planning to graduate in August to file Personnel Information Forms and photographs at Placement Office.
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.
Last day to drop a course.
- July 7 Thursday. Final examinations.
- July 8 Friday. Final examinations.
- July 9 Saturday. Students without room reservations for second term must vacate residence hall rooms by 10 A.M.
First term ends.
- July 11 Monday. 9 A.M., grades and absence reports for first term due in Office of the Registrar.

Second Term

- July 11 Monday. Second term begins.
10 A.M., residence halls open to new occupants.
1:30 P.M., entering freshmen assemble.
1:30-5 P.M., registration.
- July 12 Tuesday. 8 A.M.-12 Noon, registration.
- July 13 Wednesday. 7:20 A.M., classes begin.
Last day for persons graduating in August to order academic regalia and invitations at College Bookstore.
- July 15 Friday. Only day on which students may initiate and complete action to add courses and change sections.
- July 16 Saturday. Day of instruction for all classes.
- July 26 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 4 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 5 Friday. Last day to submit to Graduate Dean the final draft of theses and dissertations and to pay binding fee.
- August 16 Tuesday. Final examinations.
- August 17 Wednesday. Final examinations.
Residence hall dining rooms close with serving of evening meal.
- August 18 Thursday. 10 A.M., residence halls close. Degree candidates may occupy rooms until 10 A.M., Sunday, August 21.
4 P.M., final grades and absence reports for degree candidates due in Registrar's Office.
- August 19 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 20 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 21 Sunday. 10 A.M., residence halls close.

August 22 Monday. 12 Noon, grades and absence reports for second term due in Registrar's Office.

Fall Session, 1966

Sept. 16 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 150,000. 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 by an act of the Thirty-Eighth Legislature of the State of Texas, passed in 1923. This act authorized establishment of a coeducational college of a senior class west of the ninety-eighth meridian and north of the twenty-ninth parallel.

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), and Edward N. Jones (1952-1959). Dr. R. C. Goodwin served as acting president for the 1959-1960 school year and was inaugurated as the seventh president of the College on December 9, 1960.

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 Library

The collections of the College Library are intended to meet the research needs of faculty and students in support of the academic program. They are housed in an air-conditioned building completed in 1962. Holdings now total more than 775,000 items, including books, periodicals, government documents, and other materials. The Library maintains the open-shelf principle in order that its holdings may be readily available to students and faculty alike; individual study tables are distributed

throughout the stacks. 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. There is space in the stacks and the reserve and reference rooms for a total of 709 readers. Recent additions to the research holdings include an Atomic Energy Commission depository, designation as a Regional Depository for U.S. Government Documents, and the Mr. and Mrs. J. A. Koger History of Science Collection. 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 24 professional librarians and 30 sub-professionals who provide service during the Summer Session from 7 A.M. to 10 P.M., Monday through Friday; and from 7 A.M. to 5 P.M. on Saturday. Closed Sundays and holidays.

The 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, botany, business education, chemistry, chemical engineering, civil engineering, clothing and textiles, crop science, dairy industry, economics, education, electrical engineering, English, entomology, finance, food and nutrition, French, geology, German, government, history, home economics education, horticulture, industrial engineering, management, marketing, mathematics, meat science, mechanical engineering, 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 chemistry, chemical engineering, civil engineering, electrical engineering, English, geology, government, history, industrial engineering, mathematics, mechanical engineering, physics, and psychology. 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.

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.

Student Health Service

The Student Health Service benefits are available to students regularly enrolled in summer school. The Student Health Service is com-

posed of an out-patient clinic and a 32-bed Infirmary. It provides accommodations for those regularly enrolled 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 the College Physician may be admitted to the Infirmary, where they are under the constant supervision of the Physician and a registered nurse. Neither the out-patient clinic nor the Infirmary is financially able to give students unlimited medical service. The cost of special or expensive 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 Infirmary 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 Infirmary. In case the Infirmary is filled to capacity, the College is not under obligation to provide students with hospital services elsewhere.

The Student Health Service will be open to all students for consultation with the staff at regular, announced hours. Students are encouraged strongly to visit the Student Health Service out-patient department during regular clinic 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 the College Physician, danger of transmission has passed.

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. High school graduates who have declared their intention to attend the College are eligible for counseling. The summer period has been found to be an appropriate time to work out suitable educational and vocational goals.

Students desiring counseling should call PO 2-8811, 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 73,000 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 WTCAVS, P.O. Box 4380, Texas Technological College, Lubbock, Texas 79409.

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 Certifica-

tion in the Administration Building for official forms and directions for executing a teacher certificate plan.

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 entire campus. The services and programs of the Union are open to all students, wives, children, and faculty, who are cordially invited to participate.

Other recreation facilities in Lubbock, such as 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.

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 and are urged to do so. The sports offered include scratch bowling, trampoline, swimming, softball, table tennis, horseshoes, volleyball, golf, tennis, badminton, handball, slow-pitch softball, and paddle ball.

No fee is required. 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, the Placement Service, Room 252, Electrical Engineering Building, Texas Technological College.

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.

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.

Admission to Candidacy for Graduation

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

Requirements for admission to candidacy for a master's or doctor's degree are explained in the *Graduate 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. 20.

Other Academic Regulations

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

Further Information

For more detailed information regarding the summer session, write to the Dean of Admissions and Registrar, Texas Technological College, P.O. Box 4340, Lubbock, Texas 79409.

For information concerning reservations in the residence halls, write to Coordinator of Residence Hall Room Reservations, Texas Technological College, P.O. Box 4629, 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."

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 by a physician and must include a statement of successful smallpox vaccination within five years prior to registration. The requirements for this vaccination may be waived on written recommendation by a licensed physician.

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 Pre-Registration Guidance Testing 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.

* 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.

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 suspension 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, except as indicated below under "Transient Student." 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 in 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.
2. Has registered for two, three, or four semesters, he must have earned at least 9 semester hours of academic credit with grades of C or better during his last semester.
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.

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

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 at Texas Technological College and Other Institutions

Concurrent registration 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.

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 pre-

viously 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.

Fees and Deposits

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

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

Registration Fee for 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.

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.

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

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

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.

* 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 pages 45-46 of the 40th General Catalog. 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.

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
	<hr/>
Total	\$240.00

(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 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 resi-

* A deposit of \$25 must be made on or before April 1, 1966, for the geology field course. This deposit is refundable up to May 1, 1966; it is forfeited as of this date if the student decides not to enroll for the field course.

dence 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 Toreador*.

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

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

For each of the following courses in applied music:

Private Instruction

115, 116, 215, 216, 315, 316	\$ 6
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, 1966

TYPE OF ROOM	WITH AIR CONDITIONING	
	Per Day	Per Week
	Per Individual	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 Office of the Director of Residence Halls, Texas Technological College, P. O. Box 4639, 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 3, 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 2 to Aug. 4. 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 Mr. 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 term of the 1966 summer session. The workshops will carry from 1 to 3 semester hours credit.

The Workshop in Special Education—Teaching the Gifted Child—scheduled for the week of June 6-10, will be directed by Bruce Mattson, Associate Professor of Special Education, and will carry 1 semester hour credit. The workshop will seek to examine techniques in identification of programming for the gifted child. The Workshop will be geared to the needs of classroom teachers, supervisors, school counselors and administrators in special education. The student will enroll in Education 5139-1, Special Education. William Abraham, Director of Educational Services, Arizona State University, Tempe, Arizona, will be the primary consultant in this workshop.

The Workshop in Special Education—Teaching the Mentally Retarded—scheduled for June 13-17, will be directed by Bruce Mattson, Associate Professor of Special Education, and will carry 1 semester hour credit. The Workshop will explore curricular theory and programming, methodology, and useful teaching aids and materials for teaching the

mentally retarded. Herbert Goldstein, Director of Special Services, Yeshiva University, New York, will be the primary consultant and will be assisted by consultants from the Texas Education Agency and Department of Mental Health and Retardation, Austin, Texas. The student will register for Education 5139-2, Special Education.

The Workshop in Corrective Reading is scheduled for June 13—July 1. The staff of the workshop will include Miss Dorothy Filgo and Neville Bremer of the Department of Education and visiting consultants in this field. The major purpose of this workshop is to meet the demand from school systems in their increased emphasis on corrective or remedial procedures in reading. The workshop will deal specifically with causes, prevention, and correction. Special attention will be given to diagnostic and corrective procedures as a part of a total developmental reading program. The student will enroll in Education 5139-3, 4, 5, Corrective Reading.

The School Business Services Workshop, scheduled for June 20-24, will be directed by Berlie J. Fallon, Professor of Education, and will carry 1 semester hour credit. The student will register for Education 5139-6.

Applications for enrolling in the Advanced Education Workshops will be accepted from April 1 through May 15. Since enrollment will be limited in each workshop, acceptance will be based upon date of application. All applications and inquiries should be addressed to the Department of Education, Texas Technological College, Lubbock, Texas 79409.

Field Course in Mexico, 1966

A group study course, Spanish 4328-4329, is offered in alternate years 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. It 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 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 11, the first day of the second summer term, and the group will depart on July 12, returning on August 20.

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 12 to July 26. 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 31 to August 5 and the eighth annual 5-day workshop for high school students and teachers August 7 to 12.

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 Institute for Secondary Mathematics Teachers

The National Science Foundation, through a grant to the Department of Mathematics, is sponsoring an institute for secondary (seventh through twelfth grades) teachers of mathematics. Stipends for 40 teachers will be available. The period of the institute will be from June 2 through July 13. All participants will be enrolled in the Graduate School and may earn 6 semester hours of credit. The director of the institute will be Charles L. Riggs, Professor of Mathematics, to whom inquiries concerning this program should be addressed.

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 instruction are available to those interested, and pre-college theory classes are open to all pre-college students. Band camp is from June 6-17.

Chorus. A strong program for high school students and church choir directors is offered from June 10-24 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 ninth annual summer program in orchestra for string students at elementary, intermediate, and advanced levels. The junior high-elementary camp is June 27 to July 8; the senior high school camp is June 20 to July 1.

Piano. A five-day workshop, May 31 to June 4, 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, June 1-18. 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, June 6-17. It is open to any high school sophomore or junior, or outstanding freshman of the 1965-66 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 1966.

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

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

The problem of the 1966-67 forensics season will be the basis for study and practice of principles involved in effective discussion, public speaking, and debate. Each student will participate in several practice sessions, culminating in a public demonstration at the conclusion of the session.

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

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, from June 6 to 24. Stress will be placed on solving problems in water-based paints or oil-based paints on location in Taos. Each morning the classes will work in a studio where lectures and demonstrations will be conducted. The afternoon sessions will be devoted to painting on location in and around Taos. Each Friday afternoon there will be organized visits to galleries and studios in Taos and Santa Fe. Taos artists of national renown will come in for guest lectures and critiques. The workshop will be directed by professors Clarence Kincaid and Foster Marlow.

Undergraduates will enroll in Applied Arts 3311 and graduate students in Applied Arts 581, at a fee of \$35.00 for residents of Texas and \$90.00 for nonresidents of Texas. 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 pre-enroll by mail before May 1, but late registration will be permitted in Taos on June 6 if classes are not full.

Art Education Workshop

Emphasis will be concentrated on practical projects to prepare the enrollees to apply these experiences directly with elementary-age chil-

dren. This course, conducted by Mr. Franz Kriwanek, is planned for teachers, recreation leaders, and adults who work with young children. 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 13-17, stressing bulletin boards and displays. This week will include simple lettering, posters, bulletin boards, and the application of creative ideas to display of children's art.

Third week, June 20-24, stressing drawing and painting for elementary children. This will include projects and ideas with crayons, tempera colors, water colors, India ink, and mixed media.

Students enrolling for any one week only enroll in Ap. A. 511-1A, at a fee of \$13.00.

Students enrolling for any two weeks enroll in Ap. A. 511-1A and 511-2B, at a fee of \$25.00.

Students enrolling for all three weeks enroll in Ap. A. 531-1A, at a fee of \$23.00 for Texas residents or \$70.00 for nonresidents.

Students attending the first week enroll in person at regular registration, June 1; all others should pre-enroll by mail, initiated with Bill Lockhart, Head of the Department of Applied Arts, before May 1.

Workshop on Meeting Human Needs Through Clothing and Textiles

Each week of this three-week workshop (July 5-22) will emphasize a different area, as shown below. Members of the staff plus specialists in other areas will direct the workshop.

Graduate students may enroll for one, two, or three weeks to earn one, two, or three graduate semester hours:

July 5-9—Meeting Needs Through Personal and Social Development. Enroll in C&T 511-A.

July 11-15—Meeting Needs Through Creativity. Enroll in C&T 511-B.

July 18-22—Meeting Needs of Special Individuals and Groups. Enroll in C&T 511-C.

Workshop on Advanced Food Production Management

F&N 421, to be conducted June 3-17, 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 \$23.00 and for nonresidents, \$78.00.

Short Course on Advanced Problems in Human Nutrition and Foods

F&N 534, to be conducted July 11-29, will be a three-week short course concerned with major concepts in foods and nutrition in order to stress the reasoning involved in present principles of nutrition education. Three semester hours of graduate credit may be earned. Conducted by Mina Lamb, Head of the Department of Food and Nutrition. The fee for Texas residents is \$21.00, and for nonresidents, \$76.00.

Enrollment in person at regular registration, July 11.

School Lunch Workshop

A one-week, one-credit workshop, Food and Nutrition 111, 411, or 515-A, for school lunch cooks, managers, supervisors, and others interested in the school lunch program will be directed by Dean Willa Vaughn Tinsley and visiting staff from June 6-10. Enrollment by advance registration before June 1. The fee for residence hall occupants is \$22.00 and for commuters, \$12.00.

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 one or for two weeks.

June 13-17, F&N 111-A

Commuters—\$20.00, includes tuition and fees.

Residence Hall Occupants—\$45.00, includes tuition, fees, meals, room.

June 13-24, F&N 111-A and 111-B

Commuters—\$40.00, includes tuition and fees.

Residence Hall Occupants—\$90.00, includes tuition, fees, meals, room.

Enrollment at regular time on June 1-2 or by pre-enrollment initiated by May 1 with Mina Lamb, Head of the Department of Food and Nutrition.

Workshop on Teaching Family Relationships in Secondary Schools

In this workshop, August 1-19, major emphasis will be given to current trends, subject matter, and methods in teaching family relationships in today's society for secondary education teachers. Particular consideration will be given to problems and issues confronting young adults in preparation for family living.

Some attention will focus on individual preparation of curriculum materials applicable to teaching-learning experiences.

The workshop will be conducted cooperatively by the departments of Home Economics Education and Home and Family Life. Instructors will be Thelma H. Leonard and Henry E. Draper.

The workshop may be taken for one, two, or three graduate credits as follows:

Students enrolling for the first week only, August 1-5, enroll in H.E.Ed. 514-1 for 1 semester hour at a fee of \$11.

Students enrolling in first two weeks, August 1-12, enroll in H.E.Ed. 514-1 and 514-2 for 2 semester hours at a fee of \$21.

Students enrolling in all three weeks, August 1-19, enroll either in H.E.Ed. 514-1, 514-2 and 514-3 for 3 semester hours at a fee of \$31, or in Ch.D.&F.R. 5336 at a fee of \$21 for Texas residents and \$76 for nonresidents.

Enroll in person at regular registration, July 11-12, or by pre-enrollment by mail initiated by July 1 with Thelma Leonard, Home Economics Education, Texas Technological College, Lubbock, Texas 79409.

Outline of Courses

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

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, 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. Staff.

For Undergraduates and Graduates

431. Livestock Marketing. Cr. 3. Mr. Williams.
438. Range and Ranch Economics. Cr. 3. Mr. Welch.
430. Special Problems in Agricultural Economics. Cr. 3. Mr. Grubb.

For Graduates

533. Marketing Problems. Cr. 3. Mr. Williams.
534. Research in Agricultural Economics. Cr. 3. Mr. Lee.
631. Master's Thesis. Cr. 3. Mr. Grubb.

Second Term

For Undergraduates

236. Principles of Marketing Agricultural Products. Cr. 3. Staff.

For Undergraduates and Graduates

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

For Graduates

534. Research in Agricultural Economics. Cr. 3. Mr. Williams.
 631. Master's Thesis. Cr. 3. Mr. Williams.

Agricultural Education

T. L. Leach, Head

*First Term***For Graduates**

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

*Second Term***For Undergraduates**

430. Agricultural Education Problems. Cr. 3. Mr. Leach.

For Graduates

531. Investigation in the Field of Agricultural Education. Cr. 3. Mr.
 Hargrave.
 630. Master's Report. Cr. 3. Mr. Eggenberger.
 631. Master's Thesis. Cr. 3. Mr. Eggenberger.

Agricultural Engineering

Willie L. Ulich, Head

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

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

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. Mr. Meyer, Mr. Young.
 341. Fundamental Principles of Genetics. Cr. 4. 9½ lec. hrs. 6 lab. hrs.
 Mr. Ayers.

For Undergraduates and Graduates

430. Agronomy Problems. Cr. 3. Mr. Young.

For Graduates

511. Agronomy Seminar. Cr. 1. Mr. Ayers.
 534. Agronomy Research. Cr. 3. Mr. Meyer.
 631. Master's Thesis. Cr. 3. Staff.

RANGE MANAGEMENT

For Undergraduates and Graduates

432. Range Management Problems. Cr. 3. Mr. Schuster.

For Graduates

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

Second Term

AGRONOMY

For Undergraduates and Graduates

430. Agronomy Problems. Cr. 3. Staff.

For Graduates

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

RANGE MANAGEMENT

For Undergraduates and Graduates

430. Wildlife Problems. Cr. 3. Mr. Box.

For Graduates

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

Animal Husbandry

Dale W. Zinn, Acting Head

First Term

ANIMAL HUSBANDRY

For Undergraduates and Graduates

431. Beef Cattle Production. Cr. 3. Mr. Durham.
 432. Animal Breeding. Cr. 3. Mr. Curl.
 430. Special Problems in Animal Husbandry. Cr. 3. Mr. Durham.

For Graduates

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

Second Term
ANIMAL HUSBANDRY

For Undergraduates

331. Principles of Feeding. Cr. 3. Mr. Albin.
430. Special Problems in Animal Husbandry. Cr. 3. Mr. Albin.

For Graduates

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

VETERINARY SCIENCE

For Undergraduates

331. Animal Sanitation and Disease Control. Cr. 3. Mr. Harbaugh.

Dairy Industry

J. J. Willingham, Head

First Term

For Undergraduates

131. Principles of Dairying. Cr. 3. Mr. Willingham.
430. Dairy Industry Problems. Cr. 3. Mr. Willingham.

For Graduates

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

Second Term

For Undergraduates

430. Dairy Industry Problems. Cr. 3. Mr. Willingham.

For Graduates

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

Park Administration, Horticulture, and Entomology

E. J. Urbanovsky, Head

First Term

PARK ADMINISTRATION

For Undergraduates

330. Problems Course. Cr. 3. Mr. Chevalier.
430. Problems Course. Cr. 3. Mr. Chevalier.

For Graduates

531. Park Adm. Research. Cr. 3. Mr. Urbanovsky.

HORTICULTURE

For Undergraduates and Graduates

425. Problems Course. Cr. 2. Mr. Ashdown.
430. Problems Course. Cr. 3. Mr. Ashdown.

ENTOMOLOGY

For Undergraduates and Graduates

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

For Graduates

531. Entomology Research. Cr. 3. Mr. Ashdown.

Second Term

PARK ADMINISTRATION

For Graduates

531. Park Adm. Research. Cr. 3. Mr. Urbanovsky.

HORTICULTURE

For Undergraduates and Graduates

425. Problems Course. Cr. 2. Mr. Huddleston.
430. Problems Course. Cr. 3. Mr. Huddleston.

ENTOMOLOGY

For Graduates

531. Entomology Research. Cr. 3. Mr. Huddleston.

School of Arts and Sciences

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

BACTERIOLOGY

For Undergraduates and Graduates

331. General Bacteriology. Cr. 3 hrs., 12 lec. hrs., 18 lab. hrs. First 3 weeks. Mr. Sealey, Mr. Kuhnley.
430. Advanced General Bacteriology. Cr. 3. 12 lec. hrs., 18 lab. hrs. Second 3 weeks. Mr. Sealey, Mr. Kuhnley.
431. Problems in Bacteriology. Cr. 3. 18 lab. hrs. Staff.

For Graduates

531. Research in Microbiology. Cr. 3. 18 lab. hrs. Staff.
532. Selected Topics in Microbiology. Cr. 3. 9 lec. hrs. Staff.

BIOLOGY

For Undergraduates

141. Botany. Cr. 4. 9 lec. hrs., 9 lab. hrs. Mr. Camp.
 142. Zoology. Cr. 4. 9 lec. hrs., 9 lab. hrs. Miss Tilton.

For Undergraduates and Graduates

331. Heredity. Cr. 3. 9 lec. hrs. Mr. Prior.
 333. *Bio-ecology. Cr. 3. 6 lec. hrs., 9 lab. hrs. Mr. Mitchell.

BOTANY

For Undergraduates and Graduates

435. *Advanced Taxonomy. Cr. 3. 6 lec. hrs., 9 lab. hrs. Mr. Rowell.

For Graduates

531. Problems in Botany. Cr. 3. 18 lab. hrs. Staff.
 535. Field Botany. Cr. 3. 18 lab. hrs. Staff.
 537. *Morphology of the Vascular Plants. Cr. 3. 6 lec. hrs., 9 lab. hrs.
 Mr. Prior.
 631. Master's Thesis. Cr. 3. Staff.

ZOOLOGY

For Undergraduates

- 231-232. Comparative Vertebrate Anatomy. Cr. 3 each. 12 lec. hrs.,
 18 lab. hrs. Mr. Rylander.

For Undergraduates and Graduates

437. Natural History of the Vertebrates. Cr. 3. 6 lec. hrs., 9 lab. hrs.
 Mr. Mecham.
 439. Comparative Animal Physiology. Cr. 3. 6 lec. hrs., 9 lab. hrs.
 Miss Lowe.

For Graduates

531. Problems in Zoology. Cr. 3. 18 lab. hrs. Staff.
 536. *Mammalogy. Cr. 3. 6 lec. hrs., 9 lab. hrs. Mr. Packard.
 631. Master's Thesis. Cr. 3. Staff.

Second Term

BIOLOGY

For Undergraduates

142. Zoology. Cr. 4. 9 lec. hrs., 9 lab. hrs. Mr. Huff.

BOTANY

For Graduates

531. Problems in Botany. Cr. 3. 18 lec. hrs. Staff.
 535. Field Botany. Cr. 3. 18 lab. hrs. Staff.
 537. *Morphology of the Vascular Plants. Cr. 3. 12 lec. hrs., 18 lab.
 hrs. First 3 weeks. Mr. Prior.
 631. Master's Thesis. Cr. 3. Staff.

ZOOLOGY

For Undergraduates

331. Animal Histology. Cr. 3. 6 lec. hrs., 9 lab. hrs. Miss Bodemann.

For Graduates

531. Problems in Zoology. Cr. 3. 18 lab. hrs. Staff.
 536. *Mammalogy. Cr. 3. 12 lec. hrs., 18 lab. hrs. First 3 weeks. Mr.
 Packard.
 631. Master's Thesis. Cr. 3. Staff.

* A student may register for this course only with the permission of Mr. 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. Miss Stuart, Mr. Wilson.
341. Introductory Organic Chemistry. Cr. 4. 7½ lec. hrs., 9 lab. hrs. Mr. Lee.

For Undergraduates and Graduates (Graduate Minor Only)

353. Organic Chemistry. Cr. 5. 7½ lec. hrs., 18 lab. hrs. Mr. Dennis and Teaching Assistant.

For Graduates

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

Second Term

For Undergraduates

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

For Undergraduates and Graduates (Graduate Minor Only)

354. Organic Chemistry. Cr. 5. 7½ lec. hrs., 18 lab. hrs. Mr. Adamcik or Staff.

For Graduates

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

Education and Philosophy

Morris S. Wallace, Head

First Term

EDUCATION

For Undergraduates

330. Foundations of Secondary Education. Cr. 3. Mr. Dumas, Mrs. Kimmel, Mrs. Verner.
332. Educational Psychology. Cr. 3. Mr. Gammill, Mrs. Kimmel, Mr. Willingham.
334. Curriculum Development in Secondary Education. Cr. 3. Mr. Beckner, Miss Bettencourt.
3331. Child Development and the Elementary School Curriculum. Cr. 3. Mrs. Everton, Mr. Pate.
3344. Language Arts in the Elementary School Curriculum. Cr. 3. Mr. Bremer, Miss Filgo, Miss Pillow.
3345. Social Studies in the Elementary Curriculum. Cr. 3. Mrs. Everton.
436. Teaching in Secondary Schools. Cr. 3. Mrs. Verner.
4315. Audio-Visual Education. Cr. 3. Mrs. Cowan, Mr. Davidson.
4341. Teaching Arithmetic in the Elementary School. Cr. 3. Mr. Crowder, Mr. Pate, Mrs. Wheeler.

4342. Teaching Reading in the Elementary School. Cr. 3. Miss Filgo.
 4343. Teaching Science in the Elementary School. Cr. 3. Mr. Crowder,
 Mr. Mecham.

For Undergraduates and Graduates

430. History and Philosophy of Education. Cr. 3. Mr. Gammill.
 438. Educational Measurement and Evaluation. Cr. 3. Mr. Willingham.
 4331. Foundations of Educational Sociology. Cr. 3. Mr. Gammill.
 4338. The Education of the Exceptional Child. Cr. 3. Mrs. Allison, Mr.
 Mattson.
 4339. Teaching the Mentally Retarded. Cr. 3. Mrs. Allison.
 4344. Children's Literature. Cr. 3. Mr. McDonald.
 4354. The Education of the Mentally Retarded Child. Cr. 3. Mrs. Alli-
 son, Mr. Mattson.
 4355. Teaching the Gifted Child. Cr. 3. Mr. Mattson.

For Graduates

5139. Advanced Education Workshop in Teaching and Administration.
 Cr. 1-3. Mr. Fallon, Mr. Bremer, Mr. Mattson.
 530. Advanced Educational Psychology. Cr. 3. Mr. Caskey.
 533. General Public School Administration. Cr. 3. Mr. Fallon.
 537. Secondary School Administration. Cr. 3. Mr. Webb.
 539. Administration of School Business Services. Cr. 3. Mr. Fallon.
 5311. Audio-Visual Education. Cr. 3. Mr. Davidson.
 5312. Supervision in the Elementary School. Cr. 3. Mr. Tidrow.
 5313. Supervision in the Secondary School. Cr. 3. Mr. Webb.
 5317. The Junior High School. Cr. 3. Mr. Beckner, Mr. Webb.
 5319. Audio-Visual Production. Cr. 3. Mr. Davidson.
 5321. Individual Study in Education. Cr. 3. Staff.
 5323. Advanced Educational Statistics. Cr. 3. Mr. Willingham.
 5326. Reading Development in the Elementary School. Cr. 3. Miss Fil-
 go, Mr. Livingston.
 5331. Human Development in Education. Cr. 3. Miss Evans.
 5341. Developing Arithmetic Programs in Elementary Education. Cr. 3.
 Mrs. Wheeler.
 5342. Developing Reading Programs in Elementary Education. Cr. 3.
 Miss Filgo, Mr. Livingston.
 5343. Developing Natural Physical Environmental Concepts in Elemen-
 tary Education. Cr. 3. Mr. Nagle.
 5344. Developing Language Arts Programs in Elementary Education.
 Cr. 3. Mr. Bremer.
 5345. Developing Social Studies Programs in Elementary Education.
 Cr. 3. Miss Evans.
 5346. Fundamentals of Curriculum Development. Cr. 3. Mr. Mecham,
 Mr. Tidrow.
 5351. General Education Seminar. Cr. 3. Mr. Caskey.
 5355. Seminar in Elementary Education. Cr. 3. Mr. McDonald.
 5363. Problems in Audio-Visual Education. Cr. 3. Mr. Davidson.
 5364. Seminar in Educational Psychology. Cr. 3. Mr. Dreikurs.
 5366. School Personnel Administration. Cr. 3. Mr. Wallace.
 5372. Developing the School Guidance Program. Cr. 3. Mr. Caskey.
 630. Master Report. Cr. 3. Staff.
 631. Master's Thesis. Cr. 3. Staff.
 661. Internship in Educational Administration. Cr. 6. Staff.
 731, 732. Research. Cr. 3 each. Staff.
 831. Doctor's Dissertation. Cr. 3. Staff.
 Enrollment required at least four times.

PHILOSOPHY

For Undergraduates

230. Introduction to Philosophy. Cr. 3. Mr. Little, Mr. Hardwick.
 238. Ethics. Cr. 3. Mr. Hardwick.

Second Term

EDUCATION

For Undergraduates

330. Foundations of Secondary Education. Cr. 3. Mr. Gammill, Mr. Dumas.
 332. Educational Psychology. Cr. 3. Mr. Gammill, Mrs. Kimmel.
 334. Curriculum Development in Secondary Education. Cr. 3. Mr. Beckner, Miss Bettencourt.
 3331. Child Development and the Elementary School Curriculum. Cr. 3. Mr. Pate.
 3344. Language Arts in the Elementary School Curriculum. Cr. 3. Mr. Bremer.
 436. Teaching Secondary Schools. Cr. 3. Miss Bettencourt.
 4315. Audio-Visual Education. Cr. 3. Mr. Davidson.
 4341. Teaching Arithmetic in Elementary School. Cr. 3. Mr. Pate, Mr. Crowder.
 4342. Teaching Reading in Elementary School. Cr. 3. Miss Filgo.
 4343. Teaching Science in Elementary School. Cr. 3. Mr. Mecham, Mr. Crowder.

For Undergraduates and Graduates

430. History and Philosophy of Education. Cr. 3. Mr. Gammill.
 438. Educational Measurement and Evaluation. Cr. 3. Mr. Willingham.
 4344. Children's Literature. Cr. 3. Mr. McDonald.
 4352. Teaching the Brain-injured Child. Cr. 3. Mr. Mattson.
 4354. The Education of the Mentally Retarded Child. Cr. 3. Mr. Mattson.

For Graduates

536. Elementary School Administration. Cr. 3. Mr. McDonald.
 5312. Supervision in the Elementary School. Cr. 3. Mr. Tidrow.
 5321. Individual Study in Education. Cr. 3. Staff.
 5326. Reading Development in the Elementary School. Cr. 3. Miss Filgo.
 5331. Human Development in Education. Cr. 3. Mr. Mecham.
 5334. Teaching Reading in the Secondary School. Cr. 3. Mrs. Wheeler.
 5341. Developing Arithmetic Programs in Elementary Education. Cr. 3. Mrs. Wheeler.
 5342. Developing Reading Programs in Elementary Education. Cr. 3. Mr. Livingston.
 5344. Developing Language Arts Programs in Elementary Education. Cr. 3. Mr. Bremer.
 5345. Developing Social Studies in Elementary Education. Cr. 3. Miss Evans.
 5346. Fundamentals of Curriculum Development. Cr. 3. Mr. Tidrow.
 5356. Seminar in Secondary Education. Cr. 3. Mr. Webb.
 5369. School Public Relations. Cr. 3. Mr. Wallace.
 5371. General Supervision. Cr. 3. Mr. Webb.
 5372. Developing the School Guidance Program. Cr. 3. Mr. Gaskey.
 5373. Education Evaluation. Cr. 3. Mr. Fallon.
 5382. Guidance and the Classroom Teacher. Cr. 3. Mr. Caskey.
 630. Master's Report. Cr. 3. Staff.

631. Master's Thesis. Cr. 3. Staff.
 662. Internship in Educational Administration. Cr. 6. Staff.
 731, 732. Research. Cr. 3 each. Staff.
 831. Doctor's Dissertation. Cr. 3. Staff.
 Enrollment required at least four times.

PHILOSOPHY

For Undergraduates

230. Introduction to Philosophy. Cr. 3. Mr. Hardwick.

English

First Term

Everett A. Gillis, Head

For Undergraduates

131. College Rhetoric. Cr. 3. Mrs. Brewer, Mr. Burt, Mr. Godfrey, Mr. Jones, Miss Lewis, Miss Miles, Mrs. Tracy, Mrs. Tunnell.
 132. College Rhetoric. Cr. 3. Mr. Aker, Mr. Burt.
 231. Masterpieces of Literature. Cr. 3. Mr. Berry, Mrs. Brewer, Mrs. Tracy.
 232. Masterpieces of Literature. Cr. 3. Mr. Tharpe.
 330. Early English Literature: "Beowulf" through Malory. Cr. 3. Mr. Gunn.
 335. Shakespeare. Cr. 3. Mr. Davis.
 338. English Literature of the Eighteenth Century. Cr. 3. Staff.
 339. English Romanticism. Cr. 3. Mr. Davis.
 3314. Literature of the English Renaissance. Cr. 3. Mr. Berry.
 3323. American Literature and its Backgrounds. Cr. 3. Mr. Nall.
 3337. Advanced Grammar. Cr. 3. Miss Green.

For Undergraduates and Graduates

(Normally for Graduate Minor Credit Only)

434. Milton. Cr. 3. Mr. McCullen.
 4336. Teaching of English in Secondary Schools. Cr. 3. Miss Green.
 4349. Ancient and Medieval Literature. Cr. 3. Mr. Eddleman.
 4355. Modern Continental Literature. Cr. 3. Mr. Tharpe.

For Graduates

5313. Studies in Modern European Literature. Cr. 3. Mr. Eddleman.
 5319. Studies in Shakespeare. Cr. 3. Mr. McCullen.
 5323. American Literature to 1865. Cr. 3. Mr. Nall.
 5329. Studies in Modern Poetry. Cr. 3. Mr. Gillis.
 5335. Principles of Language. Cr. 3. Mr. Gunn.
 5391. Studies in the Age of Johnson. Cr. 3. Staff.
 636. Seminar in Nineteenth Century American Literature. Cr. 3. Mr. Gillis.
 630. Master's Report. Cr. 3. Staff.
 631. Master's Thesis. Cr. 3. Staff.
 731, 732. Research. Cr. 3 each. Staff.
 831. Doctor's Dissertation. Cr. 3. Staff.

Second Term

For Undergraduates

131. College Rhetoric. Cr. 3. Mrs. Dale, Mr. Foster, Mr. Langford.
 132. College Rhetoric. Cr. 3. Mr. Langford, Mr. Rushing, Mrs. Russell, Mrs. Smith.

231. Masterpieces of Literature. Cr. 3. Mrs. Brewer.
 232. Masterpieces of Literature. Cr. 3. Mr. Berry, Mr. Grimm.
 333. English Literature of the Seventeenth Century. Cr. 3. Mr. Berry.
 335. Shakespeare. Cr. 3. Mrs. Brewer.
 3322. British Literature of the Twentieth Century. Cr. 3. Mr. Norwood.
 3323. American Literature and its Backgrounds. Cr. 3. Mr. Tharpe.
 3324. American Literature and its Backgrounds. Cr. 3. Mr. Walker.
 3325. The American Novel. Cr. 3. Mr. Grimm.
 3329. Major American Poets. Cr. 3. Mr. Tharpe.
 3338. Introduction to Linguistic Science. Cr. 3. Mr. Foster.

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

439. American English. Cr. 3. Mr. Gunn.

For Graduates

5314. Studies in Literary Criticism. Cr. 3. Mr. Gillis.

Foreign Languages

First Term

Harley D. Oberhelman, Head

FRENCH

For Undergraduates

141. A Beginning Course in French. Cr. 4. Mr. Simpson, Mr. Pieraerts.
 231. A Second Course in French. Cr. 3. Mr. Hardee.
 331. Introduction to French Life and Literature. Cr. 3. Mr. Simpson.

For Undergraduates and Graduates

435. Readings in French Language and Literature I. Cr. 3. Mr. Hardee.

For Graduates

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

GERMAN

For Undergraduates

141. A Beginning Course in German. Cr. 4. Mr. Jardine, Miss Baber, Mr. Lasater.
 231. A Second Course in German. Cr. 3. Mr. Jardine.
 233. Scientific German. Cr. 3. Mr. Alexander.

For Graduates

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

LATIN

For Undergraduates

131. A Beginning Course in Latin. Cr. 3. Mr. Christiansen.
 231. A Second Course in Latin. Cr. 3. Mr. Christiansen.

SPANISH

For Undergraduates

141. A Beginning Course in Spanish. Cr. 4. Mrs. Collins, Mr. Rojas.
 231. A Second Course in Spanish. Cr. 3. Mr. Hamilton, Staff.
 331. Masterpieces of the Hispanic World. Cr. 3. Mrs. Tucker.

For Undergraduates and Graduates

4323. The Latin American Short Story. Cr. 3. Mr. Oberhelman.

For Graduates

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

METHODS

For Graduates

5311. Techniques in Foreign Language Teaching. Cr. 3. Miss Bumpass. (Given from 1-5:30 P.M. from June 3 to June 16.)

Second Term

Henry J. Maxwell, Acting Head

FRENCH

For Undergraduates

142. A Beginning Course in French. Cr. 4. Mrs. Alexander, Mrs. Brown.
232. A Second Course in French. Cr. 3. Mrs. Alexander.
332. Introduction to French Life and Literature. Cr. 3. Mr. Wetherill.

For Undergraduates and Graduates

437. Twentieth Century Novel. Cr. 3. Mr. Wetherill.

For Graduates

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

GERMAN

For Undergraduates

142. A Beginning Course in German. Cr. 4. Mr. Zyla, Staff.
232. A Second Course in German. Cr. 3. Mr. Alexander.
234. Scientific German. Cr. 3. Mr. Alexander.

For Graduates

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

LATIN

For Undergraduates

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

SPANISH

For Undergraduates

142. A Beginning Course in Spanish. Cr. 4. Miss Tejeda, Mr. Maxwell.
232. A Second Course in Spanish. Cr. 3. Mrs. Ballew, Mr. Maurino.
332. Masterpieces of the Hispanic World. Cr. 3. Mr. Maurino.

For Undergraduates and Graduates

4324. Readings in Spanish American Literature and Civilization. Cr. 3. Mr. Maxwell.
4328. Spanish Civilization. Cr. 3. Mr. Oberhelman (Given in Mexico).
4329. Spanish Civilization. Cr. 3. Mrs. Tucker (Given in Mexico).

For Graduates

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

Geosciences

Richard B. Mattox, Head

*First Term***GEOGRAPHY**

For Undergraduates

231. Principles of Geography I. Cr. 3. 9 lec. hrs. Mr. Wuersching.
232. Principles of Geography II. Cr. 3. 9 lec. hrs. Mr. Wuersching.

GEOLOGY

For Undergraduates

143. Physical Geology. Cr. 4. 9 lec. hrs., 6 lab. hrs. Mr. Mattox, Mr. Shurbet, Mr. Wade.

For Undergraduates and Graduates

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

For Graduates

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

*Second Term***GEOLOGY**

For Undergraduates

143. Physical Geology. Cr. 4. 9 lec. hrs., 6 lab. hrs. Mr. Mattox.
144. Historical Geology. Cr. 4. 9 lec. hrs., 6 lab. hrs. Mr. Arper, Mr. Yeats.

For Graduates

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

Government

J. W. Jackson, Acting Head

First Term

For Undergraduates

231. American Government, Organization. Cr. 3. Staff.
232. American Government, Functions. Cr. 3. Staff.
3341. The Administrative Process. Cr. 3. Mr. Jackson.
3361. International Politics. Cr. 3. Mr. Tamkoc.

For Undergraduates and Graduates

- 4321 Local Government. Cr. 3. Miss Chapman.
 4325. Political Parties. Cr. 3. Mr. Butler.
 4332. Modern Political Theory. Cr. 3. Mr. Oden.
 4363. International Organization. Cr. 3. Mr. Tamkoc.
 4379. British Government. Cr. 3. Mr. Jones.

For Graduates

531. Readings and Research. Cr. 3. Staff.
 532. Seminar in American Government. Cr. 3. Mr. Davis.
 631. Master's Thesis. Cr. 3. Staff.
 731. Research. Cr. 3. Staff.
 831. Doctoral Dissertation. Cr. 3. Staff.

*Second Term***For Undergraduates**

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

For Undergraduates and Graduates

4322. State Government. Cr. 3. Miss Chapman.
 4343. Local Administration. Cr. 3. Mr. Jackson.
 4361. United States Foreign Policy. Cr. 3. Mr. Lawrence.

For Graduates

531. Readings and Research. Cr. 3. Staff.
 536. Seminar in International Relations. Cr. 3. Mr. Lawrence.
 631. Master's Thesis. Cr. 3. Staff.
 731. Research. Cr. 3. Staff.
 831. Doctoral Dissertation. Cr. 3. Staff.

Health, Physical Education, and Recreation — Men

Ramon W. Kireillis, Head

*First Term***For Undergraduates
(Men)**

1113. Individual Activities.
 Beginning Bowling. Cr. 1. Mr. Segrest.
 Beginning Golf. Cr. 1. Mr. Jennings.
 Beginning Swimming. Cr. 1. Mr. Segrest, Mr. Philbrick.
 Beginning Tennis. Cr. 1. Mr. Philbrick.
 Advanced Golf. Cr. 1. Mr. Cobb.

**For Undergraduates and Graduates
(Men)**

221. Theory and Practice of Individual Sports. Cr. 2. Mr. Cobb.
 4321. Methods and Techniques of Driver Education. Cr. 3. Mr. Cobb.
 4376. Safety Education. Cr. 3. Mr. Philbrick.

**For Graduates
(Men)**

531. Administration of Physical Education. Cr. 3. Mr. Kireillis.
 532. Supervision of Physical Education. Cr. 3. Mr. Kireillis.

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

Second Term

**For Undergraduates
(Men)**

1113. Individual Activities.
 Beginning Bowling. Cr. 1. Mr. Segrest.
 Beginning Swimming. Cr. 1. Mr. Philbrick.
 Advanced Golf. Cr. 1. Mr. Cobb.
 1114. Dual Activities.
 Beginning Tennis. Cr. 1. Mr. Philbrick, Mr. Segrest.
 3311. Methods of Teaching Physical Education in High School. Cr. 3. Mr. Cobb.

**For Graduates
(Men)**

533. Facilities in Physical Education. Cr. 3. Mr. Kireilis.

Health, Physical Education, and Recreation — Women

First Term

Sue A. Rainey, Acting Head

**For Undergraduates
(Women)**

111. Body Conditioning. Cr. 1. Miss Williams.
 114. Individual and Dual Activities.
 Beginning Bowling. Cr. 1. Miss Purdy.
 Beginning Fencing. Cr. 1. Miss Purdy.
 Beginning Golf. Cr. 1. Miss Purdy.
 Beginning Tennis. Cr. 1. Miss Purdy.

(Men and Women)

113. Rhythmic Activities.
 Folk Dance. Cr. 1. Miss Williams.
 230. Methods of Teaching Health in the Elementary and Secondary Schools. Cr. 3. Miss Williams.
 233. Methods of Teaching Physical Education in the Elementary Schools. Cr. 3. Miss Rainey.
 436. Physical Examinations and Corrective Physical Education. Cr. 3. Miss Rainey.

**For Graduates
(Men and Women)**

534. Administration of the School Health Program. Cr. 3. Miss Wilson.
 535. Techniques of Research in Health, Physical Education, and Recreation. Cr. 3. Miss Wilson.
 536. Problems in Health, Physical Education, and Recreation. Cr. 3. Miss Wilson.
 630. Master's Report. Cr. 3. Staff.
 631. Master's Thesis. Cr. 3. Staff.

Second Term

Dorothy B. Hoyle, Acting Head

**For Undergraduates
(Women)**

111. Body Conditioning. Cr. 1. Mrs. Aker.
 114. Individual and Dual Activities.
 Beginning Badminton. Cr. 1. Mrs. Cobb.
 Beginning Bowling. Cr. 1. Mrs. Cobb.
 Beginning Golf. Cr. 1. Miss Hoyle.
 Beginning Tennis. Cr. 1. Miss Hoyle.

(Men and Women)

113. Rhythmic Activities.
 Folk Dance. Cr. 1. Mrs. Aker.
 Modern Dance. Cr. 1. Mrs. Aker.
 230. Methods of Teaching Health in the Elementary and Secondary Schools. Cr. 3. Miss Hoyle.
 233. Methods of Teaching Physical Education in the Elementary Schools. Cr. 3. Mrs. Cobb.

History

David M. Vigness, Head

*First Term***For Undergraduates**

131. Development of Civilizations. Cr. 3. Mr. Byrd.
 132. Development of Civilizations. Cr. 3. Mr. Smith.
 231. History of the United States to 1865. Cr. 3. Mr. Woods, Mr. Hull, Mr. Traylor, Mr. Dawson, Mr. Glasrud, Mrs. Johnston, Mrs. Kline, Mr. Rogers, Mr. Scannell, Mr. Skaggs, Mr. Stovenour.
 232. History of the United States since 1865. Cr. 3. Mr. Koehne, Mr. Whisenhunt.
 330. History of Texas. Cr. 3. Mr. Connor.

For Undergraduates and Graduates

436. Social and Cultural History of the United States since 1865. Cr. 3. Mr. Graves.
 4328. The Trans-Mississippi West from 1803. Cr. 3. Mr. Wallace.
 4355. Africa. Cr. 3. Mr. Smith.
 4359. History of Russia. Cr. 3. Mr. Traylor.
 4372. The Reformation. Cr. 3. Mr. Robbert.

For Graduates

5313. Studies in United States Social and Cultural History. Cr. 3. Mr. Graves.
 5314. Studies in the Frontier and Western American History. Cr. 3. Mr. Wallace.
 5315. Problems in American History. Cr. 3. Mr. Woods.
 5317. Studies in Medieval History. Cr. 3. Mr. Robbert.
 631. Master's Thesis. Cr. 3. Staff.
 Enrollment required at least twice.
 633. Seminar in Southwestern History. Cr. 3. Mr. Holden.
 731. Doctoral Research. Cr. 3. Staff.
 831. Doctoral Dissertation. Cr. 3. Staff.
 Enrollment required at least four times.

*Second Term***For Undergraduates**

231. History of the United States to 1865. Cr. 3. Mr. Aston.
 232. History of the United States since 1865. Cr. 3. Mr. Burke, Mr. DeLavan, Mr. Simpson, Mr. Thompson, Mr. Watkins.
 330. History of Texas. Cr. 3. Mr. Reese.
 3325. The United States since 1932. Cr. 3. Mr. Donovan.

For Undergraduates and Graduates

435. The Jacksonian Period. Cr. 3. Mr. Reese.
 4324. Mexico since Independence. Cr. 3. Mr. Vigness.
 4334. Economic History of the United States to 1865. Cr. 3. Mr. Johnson.

For Graduates

5315. Problems in American History. Cr. 3. Mr. Johnson.
 5322. Studies in United States Diplomatic History. Cr. 3. Mr. Donovan.
 631. Master's Thesis. Cr. 3. Staff.
 Enrollment required at least twice.
 634. Seminar in American History. Cr. 3. Mr. Holden.
 731. Doctoral Research. Cr. 3. Staff.
 831. Doctoral Dissertation. Cr. 3. Staff.
 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. Mr. Garets.
 432. Journalism for the High School Teacher. Cr. 3. Mr. Garets.

Mathematics*First Term*

Emmett Hazlewood, Head

For Undergraduates*

131. Trigonometry. Cr. 3. Mr. Scott, Mr. Smith.
 133. College Algebra. Cr. 3. Mrs. Rickman, Mr. Scott.
 135. Introductory College Mathematics. Cr. 3. Mr. Hazlewood, Mr. Thompson.
 136. Elements of Mathematical Systems. Cr. 3. Mr. Menon.
 137. Introductory Mathematical Analysis. Cr. 3. Mrs. Kennedy, Miss McGlothlin, Mr. Smith.
 138. Introductory Mathematical Analysis. Cr. 3. Mrs. Kennedy, Miss McGlothlin.
 139. Analytic Geometry and Calculus I. Cr. 3. Mr. Fuller, Mr. Morton.
 231. Analytic Geometry and Calculus II. Cr. 3. Mr. Kennedy. Staff.
 232. Analytic Geometry and Calculus III. Cr. 3. Staff.
 233. Linear Algebra. Cr. 3. Mrs. Steiner.
 331. Analytic Geometry and Calculus III. Cr. 3. Mr. Morton, Mr. Gray.
 332. Differential Equations I. Cr. 3. Mr. Gray.

* Before enrolling for any particular mathematics course, the beginning freshman should consult with his major adviser regarding placement procedures.

335. Higher Mathematics for Engineers and Scientists I. Cr. 3. Mr. Anderson, Mr. White.
 3318. Finite Mathematical Structure. Cr. 3. Mr. Hildebrand.

For Undergraduates and Graduates

434. Advanced Calculus. Cr. 3. Mr. Steiner.
 437. Theory of Numbers. Cr. 3. Mr. Menon.
 4313. *Probability. Cr. 3. Mr. Riggs.
 4316. Introduction to Point-Set Topology. Cr. 3. Mrs. Steiner.

For Graduates

511. Seminar. Cr. 1. Staff.
 531. Advanced Problems. Cr. 3. Staff.
 538. *Foundations of Mathematics. Cr. 3. Mr. Gioia.
 5312. Functions of a Complex Variable I. Cr. 3. Mr. White.
 5321. Methods of Applied Mathematics I. Cr. 3. Mr. Anderson.
 5335. *Advanced Mathematics for Teachers I. Cr. 3. Mr. Gioia, Mr. Parker.
 5335. Advanced Mathematics for Teachers I. Cr. 3. Mr. Hildebrand.
 5336. *Advanced Mathematics for Teachers II. Cr. 3. Mr. Parker.
 631. Master's Thesis. Cr. 3. Staff.
 831. Doctor's Dissertation. Cr. 3. Staff.

Second Term

John Ault, Acting Head

For Undergraduates

131. Trigonometry. Cr. 3. Mrs. Carpenter, Mrs. Roberts.
 133. College Algebra. Cr. 3. Mr. Woodward, Mr. Shurbet.
 135. Introductory College Mathematics. Cr. 3. Mr. Thompson, Mr. Rollans.
 138. Introductory Mathematical Analysis. Cr. 3. Mrs. Roberts, Mr. Gray.
 139. Analytic Geometry and Calculus I. Cr. 3. Mr. Rollans.
 231. Analytic Geometry and Calculus II. Cr. 3. Mr. Fuller.
 232. Analytic Geometry and Calculus III. Cr. 3. Mr. Shurbet.
 331. Analytic Geometry and Calculus IV. Cr. 3. Mr. Kennedy.
 335. Higher Mathematics for Engineers and Scientists. Cr. 3. Mr. Anderson.
 336. Higher Mathematics for Engineers and Scientists. Cr. 3. Mr. Ault.
 337. College Geometry. Cr. 3. Mrs. Carpenter.
 3318. Finite Mathematical Structures. Cr. 3. Mr. Ault.

For Undergraduates and Graduates

4321. Elementary Modern Algebra. Cr. 3. Mr. White.
 4324. Matrix Theory. Cr. 3. Mr. Woodward.
 4392. Tensor Analysis. Cr. 3. Mr. Atchison.

For Graduates

531. Advanced Problems. Cr. 3. Staff.
 5313. Functions of a Complex Variable II. Cr. 3. Mr. Atchison.
 5322. Methods of Applied Mathematics II. Cr. 3. Mr. Gray.
 5336. Advanced Mathematics for Teachers II. Cr. 3. Mr. Gilmore.
 631. Master's Thesis. Cr. 3. Staff.
 831. Doctor's Dissertation. Cr. 3. Staff.

* A student may register for this course only with the permission of Mr. Charles L. Riggs, the Director of the Summer Institute for High School Mathematics Teachers.

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. Mr. Brittin, Mr. McCarty, Mrs. Elson, Mr. Post, Miss Gettel, Mr. Hill, Miss Hongen.

For Graduates

- 425, 426, 435, 436, 445, 446, 535. 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. Mr. Brittin, Mr. McCarty, Mrs. Elson, Mr. Post, Miss Gettel, Mr. Hill, Miss Hongen.

MUSIC LITERATURE

For Undergraduates

238. Heritage of Music. Cr. 3. Mr. Hemmle, Mr. Ellsworth.

For Graduates

531. Seminar in Music Literature. Cr. 3. Mr. Deahl.
532. Choral Repertoire. Cr. 3. Mr. Kenney.

MUSIC EDUCATION

For Undergraduates

231. Music for Classroom Teachers. Cr. 3. Mr. Leach.
232. Elementary Music Principles, Practices, and Materials. Cr. 3. Miss Palmer.

For Graduates

531. Seminar in Music Education. Cr. 3. Mr. Deahl.
532. Choral Music Workshop. Cr. 3. Mr. Kenney.
533. Instrumental Music Workshop. Cr. 3. Mr. Killion.
534. Marching Band Direction. Cr. 3. Mr. Killion.
5335. Music for Children. Cr. 3. Miss Palmer.
630. Master's Report. Cr. 3. Mr. Hemmle.
631. Master's Thesis. Cr. 3. Mr. Hemmle.

MUSIC THEORY

For Undergraduates

134. Elementary Theory. Cr. 3. Miss Hongen.
234. Intermediate Theory. Cr. 3. Mr. Maynard.

Second Term

APPLIED MUSIC

(Private Instruction)

- 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. Mr. McCarty, Mrs. Elson, Mr. Post, Miss Gettel, Mr. Hill, Mr. Tolley.

For Graduates

- 425, 426, 435, 436, 445, 446, 535. 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, Organ, Piano,
 Trombone, Tuba, Viola, Bassoon, Oboe, Violin, Violoncello, Harpsi-
 chord. Mr. McCarty, Mrs. Elson, Mr. Post, Miss Gettel, Mr. Hill,
 Mr. Tolley.

MUSIC LITERATURE

For Undergraduates

239. Heritage of Music. Mr. Hemmle, Mr. Ellsworth.

MUSIC EDUCATION

For Undergraduates

231. Music for Classroom Teachers. Cr. 3. Mr. Elliott.
 232. Elementary Music Principles, Practices, and Materials. Cr. 3. Mr.
 Elliott.
 530. Seminar in Music Education. Cr. 3. Mr. Ellsworth.

MUSIC THEORY

For Graduates

531. Seminar on Music Theory. Cr. 3. Miss Van Appledorn.

Physics

H. C. Thomas, Head

First Term

For Undergraduates

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

For Graduates

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

Second Term

For Undergraduates

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

For Graduates

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

Psychology

Theodore Andreychuk, Head

First Term

For Undergraduates

- 230. General Psychology I. Cr. 3. Mr. Halcomb.
- 331. Child Psychology. Cr. 3. Mr. Sweney.
- 335. Adolescent Psychology. Cr. 3. Mr. Kuntz.
- 343. Statistical Methods. Cr. 4. Mr. Campbell.
- 435. Abnormal Psychology. Cr. 3. Mr. Ray.
- 436. Personality Development. Cr. 3. Mr. Cross.
- 4317. The Psychology of Learning. Cr. 3. Mr. Cross.
- 4326. Individual Problems Course. Cr. 3. Staff.

For Graduates

- 532-1. Problems in Psychology. Cr. 3. Staff.
- 532-2. Problems in Psychology. Cr. 3. Mr. Dreikurs.
- 539. Occupational Information. Cr. 3. Mr. Anderson.
- 5314. Tests and Measurements. Cr. 3. Mr. Halcomb.
- 5316. Introduction to Adjustment Counseling and Psychotherapy. Cr. 3. Mr. Andreychuk.
- 5317. Techniques of Counseling: Career Guidance. Cr. 3. Mr. Cannon.
- 5324. Seminar in Personality Theory. Cr. 3. Mr. Sweney.
- 5359. Advanced General Psychology. Cr. 3. Mr. Campbell.
- 5361. Advanced Practicum in Counseling and Clinical Psychology. Cr. 3. Mr. Ray.
- 5362. Internship in Counseling and Clinical Psychology. Cr. 3. Staff.
- 630. Master's Report. Cr. 3. Staff.
- 631. Master's Thesis. Cr. 3. Staff.
- 831. Doctoral Dissertation. Cr. 3. Staff.

Second Term

For Undergraduates

- 230. General Psychology I. Cr. 3. Mr. Davidson.
- 331. Child Psychology. Cr. 3. Miss Boyd.
- 332. Mental Health. Cr. 3. Miss Boyd.
- 335. Adolescent Psychology. Cr. 3. Mrs. Davidson.
- 436. Personality Development. Cr. 3. Mr. Mahone.
- 4326. Individual Problems Course. Cr. 3. Staff.

For Graduates

- 532. Problems in Psychology. Cr. 3. Staff.
- 534. Practicum in Psychological Testing. Cr. 3. Mr. Cannon.
- 5318-1. Practicum in Techniques of Counseling. Cr. 3. Mr. Mahone.
- 5318-2. Practicum in Techniques of Counseling. Cr. 3. Miss Cobb.
(Institute)
- 5352. Seminar in Learning Theory. Cr. 3. Mr. Davidson.
- 5361. Advanced Practicum in Counseling and Clinical Psychology. Cr. 3. Mr. Ray.
- 5362. Internship in Counseling and Clinical Psychology. Cr. 3. Staff.
- 630. Master's Report. Cr. 3. Staff.
- 631. Master's Thesis. Cr. 3. Staff.
- 831. Doctoral Dissertation. Cr. 3. Staff.

Sociology and Anthropology

W. G. Steglich, Head

First Term

SOCIOLOGY

For Undergraduates

230. Introduction to Sociology. Cr. 3. Staff.
235. The Sociology of Marriage. Cr. 3. Mr. Steglich.

For Undergraduates and Graduates

4314. Social Stratification. Cr. 3. Mr. Davies.

For Graduates

531. Sociological Theory. Cr. 3. Mr. Steglich.

ANTHROPOLOGY

For Undergraduates

232. Cultural Anthropology. Cr. 3. Mr. Keslin.

Second Term

SOCIOLOGY

For Undergraduates

230. Introduction to Sociology. Cr. 3. Staff.
233. Current Social Problems. Cr. 3. Mr. Shepherd.
235. The Sociology of Marriage. Cr. 3. Mr. Smith.

For Undergraduates and Graduates

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

For Graduates

631. Master's Thesis. Cr. 3. Mr. Davies.

ANTHROPOLOGY

For Undergraduates

232. Cultural Anthropology. Cr. 3. Mr. Furlow.

Speech

P. Merville Larson, Head

First Term

For Undergraduates

133. Voice and Diction. Cr. 3. Staff.
239. Speech Development for Personal Competence. Cr. 3. Mr. Shimer, Staff.
317. Radio-Television Activities. Cr. 1. Mr. Shimer.
319. Theater Activities. Cr. 1. Mr. Ashby.
338. Business and Professional Speech. Cr. 3. Mr. Funk.
432. Senior Projects in Speech. Cr. 3. Staff.

For Undergraduates and Graduates

4318. Speech Pathology. Cr. 3. Mr. Toubbeh.
4321. Supervised Clinical Practice in Speech Correction. Cr. 3. Staff.
4322. Supervised Clinical Practice in Speech Correction. Cr. 3. Staff.
4323. Supervised Clinical Practice in Hearing and Deafness. Cr. 3. Staff.
4324. Supervised Clinical Practice in Hearing and Deafness. Cr. 3. Staff.
4325. Directing School Speech Activities. Cr. 3. Mr. Ashby.

For Graduates

531. Studies and Problems in Speech. Cr. 2. Staff.
 5311. Seminar in Speech Pathology: Organic Speech Disorders. Cr. 3. Mr. Toubbeh.
 5315. Advanced Discussion, Debate, and Conference Methods. Cr. 3. Mr. Larson.
 5322. Theory and Practice of Stage Lighting. Cr. 3. Mr. Ashby.
 5335. Basic Speech for Elementary Teachers. Cr. 3. Mr. Larson.
 631. Master's Thesis. Cr. 3. Staff.
 Enrollment required at least twice.

*Second Term***For Undergraduates**

239. Speech Development for Personal Competence. Cr. 3. Mr. Larson, Mr. Shimer.
 338. Business and Professional Speech. Cr. 3. Mr. Larson.
 432. Senior Projects in Speech. Cr. 3. Staff.

For Undergraduates and Graduates

433. Introduction to Hearing Problems. Cr. 3. Mr. Ickes.
 4321. Supervised Clinical Practice in Speech Correction. Cr. 3. Staff.
 4322. Supervised Clinical Practice in Speech Correction. Cr. 3. Staff.
 4323. Supervised Clinical Practice in Hearing and Deafness. Cr. 3. Staff.
 4324. Supervised Clinical Practice in Hearing and Deafness. Cr. 3. Staff.

For Graduates

531. Studies and Problems in Speech. Cr. 3. Staff.
 5314. Seminar in Audiology: Clinical Audiology. Cr. 3. Mr. Ickes.
 631. Master's Thesis. Cr. 3. Staff.
 Enrollment required at least twice.

Biblical Literature

James Houston Hodges, Head

*First Term***For Undergraduates**

110. Introduction to Biblical Studies. Cr. 1. Mr. Greever.
 213. The Book of James. Cr. 1. Mr. McCoy.
 236. The Life and Teachings of Jesus. Cr. 3. Mr. Greever.
 324. The Letter to the Hebrews. Cr. 2. Mr. McCoy.

*Second Term***For Undergraduates**

110. Introduction to Biblical Studies. Cr. 1. Mr. Thompson.
 132. Introduction to the New Testament. Cr. 3. Mr. O'Dwyer.
 2312. The Life and Letters of Paul. Cr. 3. Mr. Thompson.

School of Business Administration

Course offerings in every department of the School of Business Administration will comprise the curricula for the 1966 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 in the Department of Business Education and Secretarial Administration leading to the Master of Education.

Accounting

Reginald Rushing, Head

First Term

ACCOUNTING

For Undergraduates

- 234. Elementary Accounting I. Cr. 3. 7½ lec. hrs., 3 lab. hrs. Mr. Green.
- 235. Elementary Accounting II. Cr. 3. 7½ lec. hrs., 3 lab. hrs. Staff.
- 246. Machine Accounting. Cr. 4. 7½ lec. hrs., 7½ lab. hrs. Mr. Eaves.
- 331. Managerial Accounting. Cr. 3. Mr. Whittington.
- 332. Analysis of Financial Statements. Cr. 3. Mr. Boer.
- 334. Intermediate Accounting I. Cr. 3. Mr. Norwood.
- 336. Principles of Cost Accounting. Cr. 3. Mr. Whittington.

For Undergraduates and Graduates

- 430. Income Tax Accounting. Cr. 3. Mr. Chisholm.
- 434. Advanced Accounting I. Cr. 3. Mr. Chapin.
- 436. Accounting Systems. Cr. 3. Mr. Roberts.
- 437. Principles of Auditing. Cr. 3. Mr. Taylor.

For Graduates

- 531. Controllership. Cr. 3. Mr. Norwood.
- 534. Seminar. Cr. 3. Mr. Roberts.
- 5311. Advanced Accounting Problems I. Cr. 3. Mr. Rushing.
- 5312. Advanced Accounting Problems II. Cr. 3. Staff.
- 630. Master's Report. See Business Administration 630.
- 631. Master's Thesis. See Business Administration 631.

BUSINESS ADMINISTRATION

For Graduates

- 5341. Research Methods in Business. Cr. 3. Mr. Heather, Mr. Rushing.
- 630. Master's Report. Cr. 3. Staff.
- 631. Master's Thesis. Cr. 3. Staff.

Second Term

ACCOUNTING

For Undergraduates

- 234. Elementary Accounting I. Cr. 3. 7½ lec. hrs., 3 lab. hrs. Mr. Taylor.
- 235. Elementary Accounting II. Cr. 3. 7½ lec. hrs., 3 lab. hrs. Mr. Cox, Mr. Williams.
- 246. Machine Accounting. Cr. 4. 7½ lec. hrs., 7½ lab. hrs. Mrs. Eaves.
- 322. Payroll Accounting. Cr. 2. Mr. Roberts.

331. Managerial Accounting. Cr. 3. Mr. Whittington.
 332. Analysis of Financial Statements. Cr. 3. Mr. Whittington.
 335. Intermediate Accounting II. Cr. 3. Mr. Norwood.

For Undergraduates and Graduates

431. Advanced Income Tax Accounting. Cr. 3. Mr. Norwood.
 435. Advanced Accounting II. Cr. 3. Mr. Roberts.
 438. Advanced Auditing. Cr. 3. Mr. Cox.

For Graduates

5311. Advanced Accounting Problems I. Cr. 3. Mr. Rushing.
 5312. Advanced Accounting Problems II. Cr. 3. Mr. Rushing.
 630. Master's Report. See Business Administration 630.
 631. Master's Thesis. See Business Administration 631.

BUSINESS ADMINISTRATION

For Graduates

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

Business Education and Secretarial Administration

First Term

William R. Pasewark, Head

BUSINESS EDUCATION

For Graduates

536. Research and Improvement of Instruction in Bookkeeping. Cr. 3.
 Mr. Binnion. June 1-June 15.
 539. Research and Improvement of Instruction in Typewriting. Cr. 3.
 Mr. Pasewark. June 20-July 7.
 630. Master's Report. See Business Administration 630.
 631. Master's Thesis. See Business Administration 631.

SECRETARIAL ADMINISTRATION

For Undergraduates

327. Report Writing. Cr. 2. Mr. Watt, Mr. Pasewark.
 333. Business Correspondence. Cr. 3. Mr. Watt.

Second Term

Irol W. Balsley, Acting Head

BUSINESS EDUCATION

For Graduates

530. Foundations of Business Education. Cr. 3. Mrs. Balsley.
 538. Research and Improvement of Instruction in Shorthand. Cr. 3.
 Mrs. Balsley. July 13-July 29.
 630. Master's Report. See Business Administration 630.
 631. Master's Thesis. See Business Administration 631.

SECRETARIAL ADMINISTRATION

For Undergraduates

327. Report Writing. Cr. 2. Mr. Watt.
 333. Business Correspondence. Cr. 3. Mr. Watt.

Economics and Finance

Robert L. Rouse, Head

First Term

ECONOMICS

For Undergraduates

133. The Development of American Business and Economic Institutions I. Cr. 3. Mr. Connell, Mr. Hendon, Mr. Stewart.
 231. Principles of Economics I. Cr. 3. Mr. Hendon, Mr. Stewart.
 232. Principles of Economics II. Cr. 3. Mr. Kim.
 326. Research in Economics and Business. Cr. 2. Mr. Clover.
 331. Economics of Business Enterprise. Cr. 3. Mr. Wittman.

For Graduates

531. Economic Research. Cr. 3. Mr. Clover.
 5335. Human Geography. Cr. 3. Mr. Clover.
 630. Master's Report. See Business Administration 630.
 631. Master's Thesis. See Business Administration 631.

FINANCE

For Undergraduates

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

For Undergraduates and Graduates

431. The Federal Reserve System. Cr. 3. Mr. Rouse.

For Graduates

531. Current Financial Problems. Cr. 3. Mr. Rouse.
 533. Seminar in Investment Analysis. Cr. 3. Mr. Bowlin.
 630. Master's Report. See Business Administration 630.
 631. Master's Thesis. See Business Administration 631.

BUSINESS LAW

For Undergraduates

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

Second Term

ECONOMICS

For Undergraduates

134. The Development of American Business and Economic Institutions II. Cr. 3. Mr. Anderson, Mr. Whittman.
 231. Principles of Economics I. Cr. 3. Mr. Anderson.
 232. Principles of Economics II. Cr. 3. Mr. Kim, Mr. Walker.
 237. Economic Geography. Cr. 3. Mr. Wittman.

For Undergraduates and Graduates

430. Development of Economic Doctrines. Cr. 3. Mr. Walker.

For Graduates

533. Advanced Macro-Economic Analysis. Cr. 3. Mr. Kim.
 534. Seminar in Contemporary Economic Problems. Cr. 3. Mr. Kim.
 630. Master's Report. See Business Administration 630.
 631. Master's Thesis. See Business Administration 631.

FINANCE

For Undergraduates

331. Corporation Finance. Cr. 3. Mr. Wade.

For Undergraduates and Graduates

433. Corporate Financial Problems and Cases. Cr. 3. Mr. Wade.
 434. Investments. Cr. 3. Mr. Bowlin.
 438. Bank Administration. Cr. 3. Mr. Rouse.

For Graduates

531. Current Financial Problems. Cr. 3. Mr. Berry.
 532. Seminar in Business Financial Policy. Cr. 3. Mr. Perry.
 534. Seminar. Cr. 3. Mr. Bowlin.
 630. Master's Report. See Business Administration 630.
 631. Master's Thesis. See Business Administration 631.

BUSINESS LAW

For Undergraduates

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

Management

First Term

W. G. Cain, Acting Head

For Undergraduates

110. Professional Careers in Business. Cr. 1. Mr. Robinson.
 331. Industrial Management. Cr. 3. Mr. Hubbard, Mr. Whitehead.
 334. Personnel Administration. Cr. 3. Mr. Luchsinger.
 432. Administrative Policy. Cr. 3. Mr. Whitehead.
 433. Labor Legislation. Cr. 3. Mr. Cain.

For Graduates

511. Individual Problems. Cr. 1. Mr. Luchsinger.
 524. Seminar in Management. Cr. 2. Mr. Luchsinger.
 534. Seminar in Management. Cr. 3. Mr. Cain.
 630. Master's Report. See Business Administration 630.
 631. Master's Thesis. See Business Administration 631.

Second Term

Vincent P. Luchsinger, Acting Head

For Undergraduates

331. Industrial Management. Cr. 3. Mr. Adams, Mr. Luchsinger.
 333. Labor Problems. Cr. 3. Mr. Adams.

For Graduates

630. Master's Report. See Business Administration 630.
 631. Master's Thesis. See Business Administration 631.

Marketing

First Term

John A. Ryan, Head

For Undergraduates

246. Introduction to Business Statistics. Cr. 4. 7½ lec. hrs., 7½ lab. hrs. Mr. Blackwell, Mr. Riter.

332. Principles of Marketing. Cr. 3. Mr. Hewett, Mr. McWilliams.
 334. Principles of Advertising. Cr. 3. Mr. Hewett.
 335. Principles of Retailing. Cr. 3. Mrs. Luchsinger.

For Undergraduates and Graduates

433. Marketing Problems. Cr. 3. Mr. Ryan.
 436. Marketing Research and Analysis. Cr. 3. Mrs. Luchsinger.

For Graduates

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

Second Term

Robert D. Amason, Acting Head

For Undergraduates

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

For Graduates

534. Seminar in Marketing. Cr. 3. Mr. Amason.
 536, 537. Individual Study in Marketing I, II. Cr. 3 each. Mr. Amason.
 630. Master's Report. See Business Administration 630.
 631. Master's Thesis. See Business Administration 631.

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. Staff.

ARCHITECTURE

For Undergraduates and Graduates

122. Freehand Drawing II. Cr. 2. 18 lab. hrs.
151. Principles of Design, Grade I. Cr. 5. 5 lec. hrs., 27 lab. hrs.
4331. Special Problems in Architecture and City Planning. Cr. 3. 7½ lec. 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. Staff.

ARCHITECTURE

For Undergraduates

152. Principles of Design, Grade I. Cr. 5. 5 lec. hrs., 27 lab. hrs.
224. Freehand Drawing III. Cr. 2. 18 lab. hrs.

Chemical Engineering

A. J. Gully, Head

First Term

For Undergraduates

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

For Graduates

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

Second Term

For Undergraduates

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

For Graduates

5331. Special Problems in Chemical Engineering. Cr. 3. Staff.
631. Master's Thesis. Cr. 3. Staff.

- 731, 732. Doctor's Research. Cr. 3 each. Staff.
831. Doctor's Dissertation. Cr. 3. Staff.

Civil Engineering

Keith R. Marmion, Head

First Term

For Undergraduates

233. Statics. Cr. 3. Mr. Decker, Mr. Claborn.
332. Dynamics. Cr. 3. Mr. Whetstone.
337. Structural Mechanics. Cr. 3. Mr. Claborn.
3311. Mechanics of Solids. Cr. 3. Mr. Ghazzaly.
435. Simple Theory of Reinforced Concrete. Cr. 3. Mr. Mehta.
4121. Civil Engineering Seminar. Cr. 1. Staff.
4331. Special Problems in Civil Engineering. Cr. 3. Staff.

For Graduates

5331. Advanced Work in Specific Fields. Cr. 3. Staff.
5342. Advanced Plastic Design. Cr. 3. Mr. McDonald.
630. Master's Report. Cr. 3. Staff.
631. Master's Thesis. Cr. 3. Staff.

Second Term

For Undergraduates

233. Statics. Cr. 3. Mr. Decker.
332. Dynamics. Cr. 3. Mr. Whetstone.
338. Structural Mechanics. Cr. 3. Mr. Claborn.
3311. Mechanics of Solids. Cr. 3. Mr. Ghazzaly.
3351. Mechanics of Fluids. Cr. 3. Mr. Claborn.
4121. Civil Engineering Seminar. Cr. 1. Staff.
4331. Special Problems in Civil Engineering. Cr. 3. Staff.
4343. Reinforced Concrete Structures I. Cr. 3. Mr. Mehta.

For Graduates

5311. Advanced Mechanics of Solids. Cr. 3. Mr. McDonald.
5331. Advanced Work in Specific Fields. Cr. 3. Staff.
630. Master's Report. Cr. 3. Staff.
631. Master's Thesis. Cr. 3. Staff.

Electrical Engineering

R. H. Seacat, Acting Head

First Term

For Undergraduates

231. Principles of Electrical Engineering I. Cr. 3. Mr. Stenis.
233. Electrical Systems Analysis. Cr. 3. Mr. Houston.
3311. Electronics I. Cr. 3. Mr. Griffith.
3321. Circuit Theory I. Cr. 3. Mr. Houston.
3341. Electromagnetic Theory I. Cr. 3. Staff.
4121. Electrical Engineering Seminar. Cr. 1. Staff.
4331. Special Problems in Electrical Engineering. Cr. 3. Staff.
4351. Energy Conversion I. Cr. 3. Mr. Adkins.

For Graduates

5331. Theoretical Investigations in Engineering Applications. Cr. 3. Mr. Craig.
 5341. Advanced Electromagnetic Theory I. Cr. 3. Mr. Craig.
 630. Master's Report. Cr. 3. Staff.
 631. Master's Thesis. Cr. 3. Staff.
 731. Doctor's Research. Cr. 3. Staff.

*Second Term***For Undergraduates**

232. Principles of Electrical Engineering II. Cr. 3. Mr. Seacat.
 234. Electronic Instrumentation. Cr. 3. Mr. Adkins.
 3312. Electronics II. Cr. 3. Mr. Griffith.
 3323. Methods of Circuit Analysis. Cr. 3. Staff.
 3342. Electromagnetic Theory II. Cr. 3. Staff.
 4121. Electrical Engineering Seminar. Cr. 1. Staff.
 4331. Special Problems in Electrical Engineering. Cr. 3. Staff.
 4352. Energy Conversion II. Cr. 3. Mr. Adkins.

For Graduates

5326. Network Applications of Linear Graph Theory. Cr. 3. Mr. Seacat.
 5331. Theoretical Investigations in Engineering Applications. Cr. 3. Staff.
 5342. Advanced Electromagnetic Theory II. Cr. 3. Mr. Craig.
 630. Master's Report. Cr. 3. Staff.
 631. Master's Thesis. Cr. 3. Staff.
 732. Doctor's Research. Cr. 3. Staff.

Industrial Engineering and Engineering Drawing

R. A. Dudek, Head

*First Term***INDUSTRIAL ENGINEERING****For Undergraduates**

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

For Graduates

5301. Advanced Work Analysis and Design. Cr. 3. Mr. Ayoub.
 5302. Advanced Work Analysis and Design. Cr. 3. Mr. Tichauer.
 5307. Advanced Production Control. Cr. 3. Mr. Ghare.
 5311. Analysis Techniques for Management. Cr. 3. Mr. Ghare.
 536. Dynamics of Engineering Economy. Cr. 3. Mr. Burford.
 631. Master's Thesis. Cr. 3. Mr. Jenkins, Mr. Dudek.
 731. Doctor's Research. Cr. 3. Mr. Dudek.
 831. Doctor's Thesis. Cr. 3. Staff.

ENGINEERING GRAPHICS**For Undergraduates**

131. Engineering Graphics I. Cr. 3. Mr. Graham.

Second Term
INDUSTRIAL ENGINEERING

For Undergraduates

321. Computer Programming Techniques. Cr. 2. Mr. Graham.
 3321. Principles of Industrial Engineering II. Cr. 3. Staff.
 3325. Industrial Statistics II. Cr. 3. Mr. Ayoub.
 4121. Industrial Engineering Seminar. Cr. 1. Staff.
 417. Industrial Statistics Problem Laboratory. Cr. 1. Staff.

For Graduates

631. Master's Thesis. Cr. 3. Staff.
 732. Doctor's Research. Cr. 3. Mr. Dudek.
 831. Doctor's Thesis. Cr. 3. Staff.

ENGINEERING GRAPHICS

For Undergraduates

132. Engineering Graphics II. Cr. 3. Mr. Graham.

Mechanical Engineering

L. J. Powers, Head

First Term

For Undergraduates

237. Metals Engineering. Cr. 3. Mr. Martin.
 3314. Machine Elements I. Cr. 3. Mr. Martin.
 3321. Engineering Thermodynamics. Cr. 3. Mr. Helmers, Mr. Reis.

For Undergraduates and Graduates

4312. Mechanical Engineering Laboratory. Cr. 3. Mr. Lawrence.
 4314. Fluid Dynamics. Cr. 3. Mr. Helmers.
 4316. Dynamics. Cr. 3. Mr. Powers.

For Graduates

5326. Heat Transmission III. Cr. 3. Mr. Lawrence.
 5331. Theoretical Studies in Advanced Topics. Cr. 3. Staff.
 630. Master's Report. Cr. 3. Mr. Reis.
 631. Master's Thesis. Cr. 3. Staff.
 731. Research. Cr. 3. Mr. Jordan.
 831. Doctor's Dissertation. Cr. 3. Mr. Jordan.

Second Term

For Undergraduates

3315. Machine Elements II. Cr. 3. Mr. Reis.
 3321. Engineering Thermodynamics. Cr. 3. Mr. Mason.

For Undergraduates and Graduates

4313. Mechanical Engineering Laboratory. Cr. 3. Mr. Reynolds.
 4315. Heat and Mass Transfer. Cr. 3. Mr. Helmers.
 4331. Special Problems in Mechanical Engineering. Cr. 3. Mr. Mason.

For Graduates

5313. Dynamics III. Cr. 3. Mr. Powers.
 5331. Theoretical Studies in Advanced Topics. Cr. 3. Mr. Reynolds.
 630. Master's Report. Cr. 3. Mr. Reis.
 631. Master's Thesis. Cr. 3. Staff.
 732. Research. Cr. 3. Mr. Jordan.
 831. Doctor's Dissertation. Cr. 3. Mr. Jordan.

Petroleum Engineering

Philip Johnson, Acting Head

First Term

For Undergraduates and Graduates

4121. Engineering Seminar. Cr. 1. Staff.

Second Term

For Undergraduates and Graduates

4121. Engineering Seminar. Cr. 1. Staff.

School of Home Economics

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

In recognition of the increasing need on the part of graduate students for short courses, the School of Home Economics has provided 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. Mr. Queen.

132. Introduction to Crafts. Cr. 3. Mr. Queen.

3311. Advanced Crafts. Cr. 3. (June 6-24, Taos, New Mexico). Mr. Marlow.

337-1. Art in Elementary Education. Cr. 3. Mr. Lockhart.

337-2. Art in Elementary Education. Cr. 3. Mr. Madeja.

For Undergraduates and Graduates

411. Special Problems. Cr. 1. Mr. Davis.

For Graduates

511. Advanced Applied Arts Unit. Cr. 1. (June 6-10, 13-17, 20-24). Mr. Kriwanek.

531-1. Special Problems. Cr. 3. (June 6-24, Taos, New Mexico). Mr. Kincaid.

531-2. Special Problems. Cr. 3. (June 6-24). Mr. Kriwanek.

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

537. Art for Exceptional Children. Cr. 3. Mr. Madeja.

*Second Term***For Undergraduates**

3311. Advanced Crafts. Cr. 3. Mr. Marlow.
 338-1. Art in Elementary Education. Cr. 3. Mr. Marlow.
 338-2. Art in Elementary Education. Cr. 3. Mr. Lockhart.

For Graduates

- 531-1. Special Problems. Cr. 3. Mr. Lockhart.

Clothing and Textiles

Gene Shelden, Head

*First Term***For Undergraduates**

131. Wardrobe Analysis, Construction, and Buying. Cr. 3. Mrs. Timmons.
 332. Dressmaking, Tailoring, and Design. Cr. 3. Mrs. Timmons.
 411-A, B, C. Special Problems. Cr. 1 each. Miss Sheldon, Mrs. Timmons.

For Graduates

- 511-A. Advanced Clothing Problems. Cr. 1. (July 5-9). Mrs. Dorsey.
 518. Seminar. Cr. 1. Miss Shelden.
 531. Special Problems in Clothing and Textiles. Cr. 3. Miss Shelden.

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

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

For Graduates

- 511-B. Advanced Clothing Problems. Cr. 1. (July 11-15). Mr. Madeja.
 511-C. Advanced Clothing Problems. Cr. 1. (July 18-22). Miss Petzell.
 518. Seminar. Cr. 1. Miss Shelden.
 531. Special Problems in Clothing and Textiles. Cr. 3. Miss Shelden.
 631. Master's Thesis. Cr. 3. Miss Shelden.

Food and Nutrition

Mina Lamb, Head

*First Term***For Undergraduates**

111. School Lunch Workshop. Cr. 1. (June 6-10). Miss Tinsley.
 111. School Lunch Workshop. Cr. 1. (June 13-17, June 20-24). Mrs. Vaden.
 334. Human Nutrition. Cr. 3. Mrs. Hunt.

For Undergraduates and Graduates

411. Problems in Food and Nutrition. Cr. 1. (June 6-10). Miss Tinsley, Miss Zeches.
 421. Advanced Food Production Management. Cr. 2. (June 3-14). Miss Zeches.

For Graduates

515. Special Aspects of Food and Nutrition. Cr. 1. Mrs. Hunt.
 631. Master's Thesis. Cr. 3. Miss Zeches.

*Second Term***For Graduates**

534. Advanced Problems in Human Nutrition. Cr. 3. (July 11-29)
Mrs. Lamb.
631. Master's Thesis. Cr. 3. Mrs. Lamb.

Home Economics Education

L. Ann Buntin, Head

*First Term***For Undergraduates**

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

For Graduates

534. Techniques of Research in Home Economics. Cr. 3. Miss Drake.
631. Master's Thesis. Cr. 3. Miss Buntin.

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

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

For Graduates

533. Evaluation in Home Economics. Cr. 3. Mrs. Sitton.
- 514-1. Specific Problems in Teaching Home Economics. Cr. 1. (August
1-5). Mrs. Leonard.
- 514-2. Specific Problems in Teaching Home Economics. Cr. 1. (August
8-12). Mrs. Leonard.
536. Problems. Cr. 3. (August 1-19). Mrs. Leonard.

Home and Family Life

Estelle H. Wallace, Head

*First Term***CHILD DEVELOPMENT AND FAMILY RELATIONS****For Undergraduates**

231. The Infant. Cr. 3. Mrs. Wallace.
233. Child Growth and Development. Cr. 3. Mrs. Gifford.
235. Preparation for Success in Marriage. Cr. 3. Mrs. Edwards.

HOME MANAGEMENT**For Undergraduates and Graduates**

432. Home Management Residence. Cr. 3. (Residence). Miss Luella
Williams.
432. Home Management Residence. Cr. 3. (Nonresidence). Miss
Luella Williams.

*Second Term***CHILD DEVELOPMENT AND FAMILY RELATIONS****For Undergraduates**

233. Child Growth and Development. Cr. 3. Mrs. Wallace.

For Undergraduates and Graduates

433. Family Relations. Cr. 3. Mr. Draper.

For Graduates

5336. Advanced Interpersonal and Family Relations. Cr. 3. (August 1-18). Mr. Draper. (Workshop with Home Economics Education).

HOME MANAGEMENT**For Undergraduates and Graduates**

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

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