

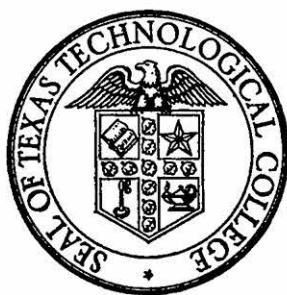
BULLETIN OF
TEXAS TECHNOLOGICAL COLLEGE

Vol. XXXVII

March, 1961

No. 3

SUMMER SESSION
1961



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COLLEGE CALENDAR

SUMMER SESSION

1961

First Term

June 1. Thursday. 2 P. M., residence halls open for occupancy.

June 2. Friday. Summer session begins. 8 A. M.-12 Noon, 1:30-5 P. M., registration.
1 P. M., entering freshmen assemble in C101.

June 3. Saturday. 8 A. M.-12 Noon, registration.

June 5. Monday. 7:20 A. M., classes begin.

June 6. Tuesday. Last day to register for first term.
Last day to change schedules.

June 19. Monday. Grade of "W" will be given for courses dropped on or before this date.

June 24. Saturday. Day of instruction for all classes.

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

July 5. Wednesday. 7:20 A. M., classes resume.

Last day to file at Placement Office Personnel Information Forms and photographs by students planning to graduate in August.

Last day for first-term students to pay \$5 graduation fee at Business Office.

Last day to secure refund of \$5 graduation fee by those who have previously deposited same and have canceled plans to graduate in August.

Last day to file with student's academic dean the statement of intention to graduate in August.

July 7. Friday. Deans will submit tentative lists of all degree candidates to Registrar's Office.

July 13-14. Thursday-Friday. Final examinations.

July 14. Friday. First term ends.

Second Term

July 16. Sunday. 12 Noon, residence halls open to new occupants.

July 17. Monday. Second term begins.
8 A. M., entering freshmen assemble in C101.
8 A. M.-12 Noon, 1:30-5 P. M., registration.

July 18. Tuesday. 7:20 A. M., classes begin.
Last day to order senior invitations

and academic regalia for August graduation.

July 19. Wednesday. Last day to register for second term.
Last day to change schedules.

July 29. Saturday. Day of instruction for all classes.

August 1. Tuesday. The grade of "W" will be given for courses dropped on or before this date.
Last day to pay \$5 graduation fee

for students enrolled in second term only.

August 12. Saturday. Day of instruction for all classes.

August 16. Wednesday. Last day to submit to Graduate Dean the final draft of theses and dissertations, and to pay binding fee.

Last day to complete work for removal of grades of "Inc." and "Pr." for degree candidates.

Last day to complete correspondence courses; instructors will file grades by August 18.

Last day to submit requests for graduation in **absentia**.

Last day for graduate students enrolled in second term only to file in Placement Office the Personnel Information Forms and photographs.

Last day to drop a course.

August 23-24. Wednesday-Thursday. Final examinations.

Residence hall dining rooms close with serving of evening meal.

August 25. Friday 10 A. M., grades and absence reports for degree

candidates due at Registrar's Office.

3 P. M., each academic dean will send to Registrar's Office the final and official list of graduates in his school.

August 26. Saturday. 8:30 A. M., rehearsal for Commencement, all August graduates. By 12 Noon, degree candidates obtain academic regalia at College Bookstore.

President's reception for graduating seniors.

7:15 P. M., Commencement exercises.

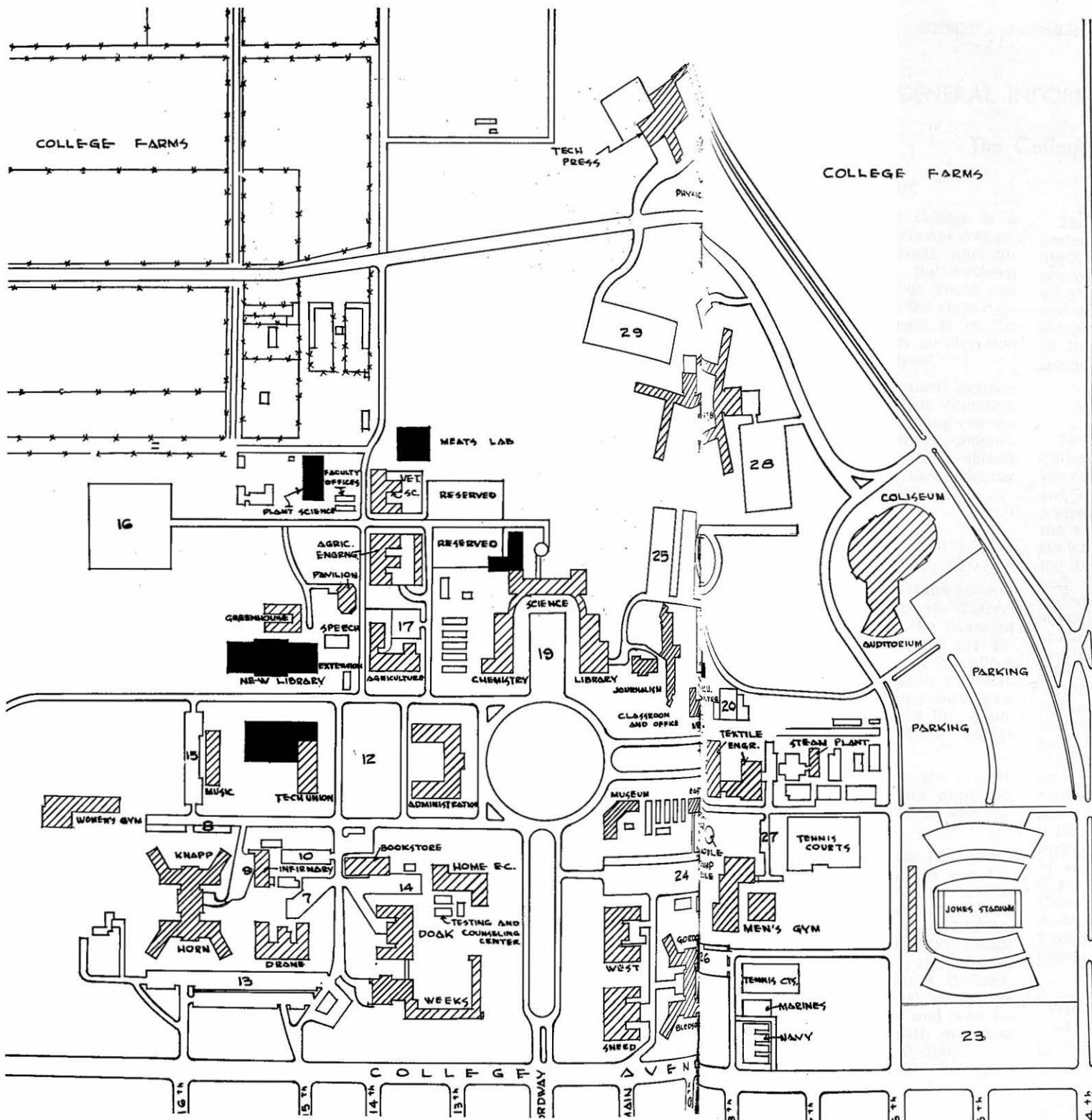
Summer session ends.

August 27. Sunday. 10 A. M., residence halls close.

August 28. Monday. 12 Noon, grades and absence reports on all students due at Registrar's Office.

* * * *

Sept. 11. Monday. Fall semester begins.



TEXAS TECHNOLOGICAL COLLEGE
 CAMPUS PLOT
 DATE - AUG. 1960 DRAWN BY: R. K.

EXISTING BUILDINGS
 BUILDINGS UNDER CONSTRUCTION

GENERAL INFORMATION

The College

LOCATION

Texas Technological College is a state-supported coeducational college. It is located at Lubbock, approximately 200 miles from the northern line of the Panhandle of Texas and 400 miles northwest of the state capital at Austin. Lubbock is in the South Plains area with an elevation of 3,256 feet above sea level.

The city has a permanent population of 128,691. Excellent churches, schools, hotels, and shopping centers are available. Two railway systems, an interstate bus line, an excellent highway system, and three airlines operate through the city.

HISTORY

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

The first buildings were erected and opened to students Sept. 30, 1925. The physical plant is now valued at \$36,651,132.

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

LIBRARY

The Library of Texas Technological College, consisting of 223,767 catalogued volumes, 61,555 periodicals, and 155,794 documents, is housed in a separate building near the center of the campus. Among the facilities for student services are the reserve reading room, a general reading room, and areas devoted to the use of periodicals and documents. Individual study space is available for graduate students engaged in research. It also provides readers for microfilm and microcard publications.

A staff made up of 16 professionally trained librarians and 21 sub-professionals provides service during all hours the Library is open.

It offers services to the students and faculty of the College, to the citizens of the State of Texas, and to other friends of the College.

Hours of service: 8 A. M. to 12 Midnight, Monday through Friday; 8 A. M. to 6 P. M., Friday and Saturday; 2 P. M. to 12 Midnight, Sunday. Closed holidays. Summer term: 7:30 A. M. to 9:30 P. M., Monday through Friday; 7:30 A. M. to 4:30 P. M., Saturday. Closed Sundays and holidays.

THE SOUTHWEST COLLECTION

The Southwest Collection, housed in The Museum and sponsored by the

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

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

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

WEST TEXAS MUSEUM

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

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

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

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

The Graduate School

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

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

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

Division of Extension

Approximately 150 college and 50 high school courses, including both credit and non-credit courses, are offered by correspondence and extension class work for those who are unable to attend classes in residence. Credit courses may count on degrees and teachers' 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.

Special Education Program

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

Teacher Certification

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

West Texas Cooperative Audio-Visual Services

The West Texas Cooperative Audio-Visual Services provide on-campus service for the schools and depart-

ments of Texas Technological College. Room 11 of the Library 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 Library Building, Room 5.

Film distribution from the College campus is currently reaching 60,000 students in the public schools. Schools of West Texas desiring to participate in the Cooperative Audio-Visual program may obtain further information by writing the Director of WTCAS, P.O. Box 4380, Texas Technological College, Lubbock, Texas.

Health Service

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

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gation to provide students with hospital service elsewhere.

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

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

There will be a health service fee of \$1 per student enrolled in any summer workshop or short course.

Testing and Counseling Center

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

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

Students desiring the services of the Testing and Counseling Center should call PO 5-8541, Extension 331, or come to the Center for an appointment.

All service is on a fee basis, payable to the College. Students of Texas Technological College are charged \$12.50. Extended counseling requires some additional fee.

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 is made possible by virtue of the Union fee and is open to all summer school students.

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

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

Placement Service

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

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 and coverage offered may be received from the Director, The Placement Service, Room 252, West Engineering Building.

The College Bookstore

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

Reserve Officers' Training Corps

DEPARTMENT OF AIR SCIENCE

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

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

The AF ROTC curriculum is general in nature and offers subjects not available elsewhere in the College curriculum. The basic course is designed specifically to give the student desirable citizenship training in an air age equally appropriate to the student, whether he continues in civilian status or joins the military. The advanced course is designed primarily to develop an Air Force commissioned officer with high growth potential, and secondarily, to produce a second lieutenant to enter immediately either into the flying training or specialized and technical training program, or an on-the-job training

position in a field closely allied to his major field of academic study.

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

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

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

No AF ROTC courses will be offered during the summer of 1961.

DEPARTMENT OF MILITARY SCIENCE

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

The Army ROTC curriculum is divided into the basic course covering the first two years and the advanced course covering the junior year, summer camp, and senior year, in that order. All students pursue the same course for the four years. Assignment to branch is made on commis-

sioning based on the student's preference, his academic course, recommendation of the ROTC staff and other college faculty, and the current needs of the Army.

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

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

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

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

No Army ROTC course will be offered during the summer of 1961.

ed only conditional admission to candidacy. In this status, the student's ordering of a diploma and making other plans for graduation will be entirely on his own responsibility.

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

Summer School Commencement

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

Other Academic Regulations

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

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 grant-

Further Information

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

THE SUMMER SESSION

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

The summer session is planned especially for the following groups:

1. Entering Freshmen. High school graduates who wish to accelerate their college programs may do so by entering college at the beginning of the summer session. Beginning courses are offered in most all of the basic freshmen curricula.

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 admission office, Administration Building, Room 160. In addition, regular students must submit a complete transcript from the high school and all colleges previously attended. The new student is urged to send in credentials well in advance of registration date.

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

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

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

*One unit in general mathematics may be accepted for admission to the Schools of Agriculture, Business Administration, Home Economics, and for non-scientific majors in Arts and Sciences. Courses falling under the description of arithmetic are not accepted as one of the uniform required units in mathematics.

The Freshman Placement Testing Program. Placement tests are required of all new students with freshman classification. If the student has taken the College Board Scholastic Aptitude Test (SAT) or the American College Test (ACT) and has had the test scores sent to the Registrar at Texas Tech, he will not need to repeat the tests at this time.

The test results will not affect admission to Texas Tech. The test results will, however, be used in determining the courses to which a student will be assigned his first semester. Results of these tests are also used by deans and faculty advisers for counseling and as one basis for awarding scholarships, loans, and scholastic honors.

The student who has not been tested will be delayed in his final registration. Students who have not been tested must report to Chemistry Building, Room 101, at 1 P. M., Friday, June 2.

Ordinarily, the freshman student will be admitted on his high school transcript.

Admission from Other Colleges and Universities. Undergraduate students who have attended another accredited college, who are in good standing, and who are not under disciplinary or scholastic suspension may be accepted for admission to Texas Technological College upon presentation of an official transcript. The student's previous performance must meet the following minimum requirements for transfer students:

Specific requirements for the transfer student who originally enrolled for 12 or more semester hours during the last semester in attendance:

- (1) The student who has attended only one semester in college must have earned at least 6 semester hours of credit with 6 grade points.
- (2) The student who attended two, three, or four semesters must have earned at least 9 semester hours with 9 grade points during his last semester.

- (3) The student who attended five or more semesters must have earned at least 12 semester hours with 12 grade points during his last semester.

The student who originally enrolled for less than 12 semester hours during his last semester in attendance must have passed one-half of his hours with a grade of "C" or above during the semester.

Grade points are computed as follows: for each semester hour of A—3; B—2; C—1; all other grades—none.

Students transferring credits from a non-accredited institution must validate all credits with a 1.00 grade average on the first 30 hours of residence at Texas Technological College. The student may be dropped at any time he falls below a 1.00 average during the first 30 semester hours. Students who did not meet the admission requirements to Texas Technological College at the time they were admitted to a non-accredited institution must successfully pass required testing for admission. Credit earned will also be validated as indicated above.

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

Transient Students. Students enrolled in other colleges who plan to attend the **summer session only** may be admitted without the necessity of formal transcript of record from the former college. Such students, however, should furnish a letter from the registrar of the previous college indicating classification and present

scholastic standing. Admission as a transient student does not guarantee admission as a regular student in the following fall semester. Regular students must present transcripts and meet regular admission requirements.

Class Work and Routine

Student Load. The normal load for a six-week term is 6 semester hours. A student will not be permitted to register for, or secure credit in, more than 14 semester hours in the two terms, including any correspondence work. Students who have not done work previously in Texas Technological College will regularly enroll for a maximum of 6 semester hours, exclusive of 1-hour physical education courses and 1-hour credit in orientation. 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 class is crowded and is not granted to students enrolled in summer session courses which are scheduled for less than the regular six-week term.

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

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

Fees and Deposits

Payment.* All fees and deposits are payable in full at the time of

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

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

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

A non-resident student is defined on Pages 24 and 25 in the General Information Bulletin, 1960-1961.

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

Veterans of the Spanish American War, World War I, World War II, or Korea, who are residents of Texas, may be eligible for benefits of the Hazlewood Act. See Page 28 of the General Information Bulletin, 1960-1961, or the Veteran Co-ordinator in the Registrar's Office.

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

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

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

early registration counseling and testing program to cover laboratory materials and supplies.

General Property Deposit. A breakage deposit of \$7 is required from each student to cover breakage, library fines, or damage to college property or equipment while in the student's possession or use. The deposit, less charges, will be returned to the student at his request upon termination of his tenure here as a student.

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

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

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

Special Fees.

Ceramics Fee:	
Allied Arts 421	\$ 5.00
Course Fees:	
Accounting 244, 245, 246	4.00
Geology 363 (Salida, Colo.)*	
Tuition	25.00
Room and Board	125.00
Course Fee	40.00
Transportation Fee	35.00
	\$225.00

Geology 563 (Moab, Utah)*

Tuition	\$ 25.00
Course Fee	40.00
Transportation Fee	35.00
	\$100.00

Physical Education

013, 2112	\$ 5.00
Physical Education 4321	\$ 20.00
Marketing 346	\$ 6.00
Secretarial Administration 333	
	\$ 4.00

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

Workshop Fees. Each one-week workshop with one 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 per cent of any registration fees paid, and during the second week, 20 per cent. A student who withdraws during the third week and thereafter of either summer term will receive no refund.

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

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

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

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

Visitor's Fee. A fee of \$10 for each course is required for the privilege of visiting any course. No credit may

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

be obtained for auditing courses in this manner. See Page 45, General Information Bulletin 1960-61, for qualifications for and limitations on visiting a course.

Enrolling for No Grade. The other method is for students regularly enrolled in the College, either in the summer session or the long session, and entitles them to register for residence courses for no grade and therefore for no credit. Such registrations are to be considered on the same basis as registrations in credit courses in making the student's schedule, both in payment of fees and in consideration of 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 Treador.

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

MUSIC FEES FOR PRIVATE INSTRUCTION

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

For each of the following courses in applied music:

Private Instruction

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

SUMMARY OF EXPENSES FOR SIX-WEEK TERM

Fees, Books and Supplies

Registration Fee (legal resi-	
dent of Texas)	\$ 25.00
General Property Deposit (re-	
fundable)	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	\$ 61.50
Board and Room in College	
Residence Hall	108.00
Estimated grand total for	
six-week term	<u>\$169.50</u>

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

Housing Facilities

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

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

Residence Hall Reservations. Applications for residence hall reservations

will be made to the Office of Room Reservations. A check for \$40 must accompany the request. This will serve as a reservation fee, and will be held as a residence hall property deposit. It will be refunded, less any breakage charges, at the end of the term. If a student moves from the residence hall during the term, the \$40 deposit will not be refunded.

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

for the second term of summer session.

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

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

WORKSHOPS, SHORT COURSES

Students planning to enroll in short courses and workshops for college credit are requested to register in person or by mail prior to June 5, even though the beginning date of the course occurs later in the summer term.

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 August 3. 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. Earl D. Camp, Head of the Biology Department, to whom inquiries concerning this program should be addressed.

ADVANCED EDUCATION WORKSHOPS IN TEACHING AND EDUCATIONAL ADMINISTRATION

The Department of Education will offer three Advanced Education Workshops during the first term of the summer session. The workshops will carry from 1 to 3 semester-hours' credit.

The School Business Services Workshop, scheduled for the week of June 19-23, will be directed by Mr. Berlie J. Fallon and will carry one semester hour credit. The student will register for Education 5139-1.

A three-week workshop for high school principals is scheduled June 12-30. The workshop, directed by Mr.

Earl R. Sifert, will meet from 9 A.M. to 12 Noon each day and will carry 3 semester-hours' credit. The student will enroll for Education 5139-2. The workshop will be organized around the actual problems and issues that confront the high school principal in his school-community situations. The student may enroll in one additional 3-hour course.

A three-week workshop for junior high school principals is scheduled June 12-30, to run simultaneously with the high school principals' workshop. The workshop, directed by Mr. Holmes Webb, will meet from 9 A.M. to 12 Noon each day and will carry 3 semester-hours' credit. The student should enroll in Education 5139-3. The workshop will be organized around problems and issues that confront the junior high school principal in his school-community situation. When the problems under consideration are also common to the high school, the two workshops will meet together. School systems are urged to send their senior and junior high school principals to the workshops as a team. Students may enroll in one additional 3-hour course.

All inquiries regarding these workshops should be addressed to the staff member named above in each workshop.

Registration for all workshops by June 5 is highly desirable.

SUMMER PROGRAM OF GERMAN FOR CHILDREN

A summer program of beginning German for children will be conducted by the Department of Foreign Languages, July 18-Aug. 14. Classes will meet one hour daily, Monday through Friday. The course is open to any elementary school child who will

be in the third or fourth grade during the 1961-1962 school year. Students of other grade levels will be accepted only to the extent that registration does not exceed the maximum available places.

The program will emphasize practice in spoken German with German games, jingles, songs, pictures, and stories forming the basis of oral practice. A fee of \$12 will cover the cost of tuition and all materials used in the course.

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

SUMMER LANGUAGE INSTITUTE

A Summer Language Institute, of fered in cooperation with the United States Office of Education, and supported by the National Defense Education Act of 1958, will be held June 2 to July 27.

The institute, which will enroll 16 elementary school teachers of Spanish and 32 secondary school teachers of Spanish, will be for the purpose of affording to the participants, in the national interest, an opportunity to:

1. Receive training in the use of new teaching methods and new instructional materials.
2. Increase measurably their facility in speaking and understanding Spanish.
3. Become acquainted with the application of linguistic principles to the teaching of language.
4. Added to their understanding of the cultural background of the peoples who speak Spanish.

Inquiries concerning the program may be addressed to the director, Mr. Alfred B. Strehli, Department of Foreign Languages.

HIGH SCHOOL NEWSPAPER-YEARBOOK WORKSHOP

The Department of Journalism and the West Texas High School Press Association jointly sponsor a five-day

workshop for high school students and teachers, Aug. 13-17.

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

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

MATHEMATICS TEACHERS INSTITUTE

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 50 teachers will be available. The period of the institute will be from June 2 through July 14, coinciding with the first six-week summer session. All participants will be enrolled in the Graduate School and may earn 6 semester hours of credit. The director of the institute will be Mr. Charles L. Riggs of the Department of Mathematics, to whom inquiries concerning this program should be addressed.

SUMMER MUSIC SCHOOL

Band, Chorus, Orchestra (Pre-College)

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

Nationally known conductors and instructors have been invited to conduct each activity.

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.

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

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

WORKSHOP IN DIRECTING SCHOOL SPEECH ACTIVITIES, JULY 18—AUG. 5

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

DRAMATICS AND FORENSICS (HIGH SCHOOL) WORKSHOP

A workshop in dramatics and forensics for high school students will be conducted by the Speech Department July 24-Aug. 5. It is open to any high school sophomore or junior, or outstanding freshman of the 1960-

1961 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 1961.

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 1961-1962 forensics season will be the basis for study and practice of principles involved in effective discussion, public speaking, and debate. Each student will participate in several practice sessions, culminating in a public demonstration at the conclusion of the session.

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

School of Engineering

COTTON CLASSING SHORT COURSE — JUNE 5-16

In conjunction with the United States Department of Agriculture, Agricultural Marketing Service, Cotton Division, the Department of Textile Engineering sponsors an annual two-week intensive short course in cotton evaluation. The work consists of daily practice in grading and stapling, special lectures by local cotton men and the textile engineering staff

and faculty, and visits to the Tech pilot spinning plant and fiber laboratory, as well as to other points of cotton interest locally. Stress is placed on new laboratory methods of cotton evaluation.

Open to anyone interested in cotton, there are no prerequisites, and no college credit is given. Certificates are awarded those successfully completing the course.

For further information, write or call the Department of Textile Engineering.

Offered on sufficient demand.

School of Home Economics

WORKSHOPS — NEW DIRECTIONS IN HOME ECONOMICS

First Week, July 5-10: Cr. 1

Second Week, July 11-15: Cr. 1

Three Weeks, July 5-22: Cr. 3

Dr. Beatrice Paolucci will conduct two one-week workshops in **New Directions in Management** for home economists who work with both youth and adults. Emphasis will be given to the problems of homemaking teachers, college teachers, city supervisors, home demonstration agents, and field staffs with commercial firms.

In the first week, Dr. Paolucci will give attention to new directions in management in **Clothing and Textiles**, in **Housing and Home Furnishings**, and in **Applied Arts**.

In the second week, Dr. Paolucci will give attention to new directions in management in **Child Development**, in **Family Relations**, in **Family Health and Safety**, and in **Food and Nutrition**.

In the third week, other home economics staff members will assist participants in further applications of management principles. Participants will have opportunity to do work on individual problems in their professional fields.

All courses are open to graduate home economists for 1, 2, or 3 semester-hours' credit.

The fees are as follows:

One week, one credit: \$10 plus \$1 health fee. (This can be either the first or second week of the workshops.)

Two weeks, two credits: \$20 plus \$1 health fee. (The first two weeks of the workshops.)

Three weeks, three credits: \$20 plus \$1 health fee. (All three weeks of the workshops.)

(Student Union fees and general property deposits are waived for these workshop courses.)

Students may enroll in these workshops for credit in various departments in home economics as follows:

For one credit: **Clothing and Textiles 514 or 411**; **Food and Nutrition 515**; **Home Economics Education 514**.

For two credits: **Clothing and Textiles 514 and 411**; **Food and Nutrition 515A and B**; **Home Economics Education 514A and B**; or a combination of credits in these three departments.

For three credits: **Applied Arts 531**; **Clothing and Textiles 531**; **Food and Nutrition 533**; **Home Economics Education 536**.

NEW DIRECTIONS IN APPLIED ARTS

Applied Arts 531 (July 5-22) three credits.

During the first two weeks this course will be conducted by both Miss Paolucci and Mrs. Beitler. New directions in applied arts will be explored.

In the third week, Mrs. Beitler will assist students in making further application of new directions in applied arts to individual situations.

NEW DIRECTIONS IN CLOTHING AND TEXTILES

Clothing and Textiles 514 (July 5-10) for one credit; or **Clothing and**

Textiles 514 plus 411 (July 11-15) for two credits; or Clothing and Textiles 531 (July 5-22) for three credits.

Directed by Miss Paolucci and Miss Shelden featuring new directions in clothing and textiles.

These courses are planned to point up present developments in problems of clothing the family and furnishing the home. The third week's plans include work on individual problems in relation to the clothing and textile field.

NEW DIRECTIONS IN FOOD AND NUTRITION

Food and Nutrition 515-A (July 5-10) for one credit; or Food and Nutrition 515-A plus Food and Nutrition 515-B (July 11-15) for two credits; or Food and Nutrition 533 (July 5-22) for three credits.

Directed by Miss Paolucci and Mrs. Lamb featuring new directions in management in food and nutrition.

These courses are planned to point up present-day concepts of meal management, food purchasing, and planning the day's food needs plus how to teach these concepts to youth and adults.

NEW DIRECTIONS IN HOME ECONOMICS EDUCATION

Home Economics Education 514-A (July 5-10) for one credit; or Home Economics Education 514-A plus Home Economics Education 514-B (July 11-15) for two credits; or Home Economics Education 532 (July 5-22) for three credits.

Directed by Miss Paolucci, Mrs. Adams, and staff, developing and exploring new directions in management in all areas of home economics.

These courses are planned to give opportunity to rethink and identify values, then to plan applications of the managerial process in teaching youth and adults.

SCHOOL LUNCH WORKSHOP

June 12-16. A one-week, one-credit workshop, Food and Nutrition 111 or 411, for school lunch cooks, managers, supervisors, and others interested in the school lunch program. Directed by Dean Willa Vaughn Tinsley and visiting staff. Enrollment by advance registration before June 1.

Fees: \$22 for residence hall residents; \$12 for commuters.

FIELD TRIPS, TOURS

European Theater Tour

The Speech Department will offer for the first time this summer a credit course in European Theater, Speech 3313-3314, which will make possible first-hand observations of respective theaters and productions. The tour of approximately six weeks, beginning June 1 and ending approximately July 14, will include attendance at outstanding theater events, visits to important theaters in England, Scotland, Holland, Germany, Austria, Italy, Monaco and France. There will be opportunity to see professional productions at such theaters as Old Vic in London, the Shakespeare Memorial Theatre in Stratford, the Scarborough Showboat, the Theatre-on-the-Rhine, the Teatro Olimpico, the Bath of Caracalla, the Avignon Open Air Theatre, and in Paris the Comedie Francaise and the Folies Bergeres. Also included will be two days of the International Theatre Festival in Vienna.

The course may be taken for 6 hours of credit. Non-credit attendance will be possible to the extent that credit registrations do not exceed the maximum available places. Travel costs, including in-state transportation, hotel, theater tickets, tips, and meals (except one meal daily in Rome, London, and Paris), but not personal and incidental expenses, will not exceed \$1200. A deposit of \$200 should be made with application and the final payment made by May 1. For further information write the Speech Department, Texas Technological College.

Field Course in Archaeology, Mexico

A field course in Mexican archaeology, (Anthropology 536-537: formerly 336-337) is scheduled for the

first term of the 1961 summer session. This is a course in archaeological methods of excavation with practical experience in cave excavation at a site near Durango, Mexico. Inquiries concerning the details, costs, and other related matters should be directed to the instructor, Mr. David H. Kelley, Assistant Professor of Anthropology, or to the Department of History and Anthropology.

Field Course in Mexico City, 1962

A group study course, Spanish 4328-4329, is offered in alternate years in Mexico City during the second term of the summer session. It is a study of various phases of pre-Hispanic and Hispanic civilizations: history, arts, language, and literature, and is designed for those who are preparing to teach Spanish or enter government service, or who simply wish to acquire fluency in Spanish and an intimate knowledge of Mexican culture. Students stay at a hotel in Mexico City. During the week they attend class, visit places of interest in and near the capital, and have the opportunity to go to operas, concerts, plays, lectures, exhibitions, and bull-fights. On week-ends they visit other cities or towns of historic and cultural interest, such as Cuernavaca, Taxco, Huejotzingo, Cholula, Puebla, the Convent of Acolman, and the archaeological zone of Teotihuacan, famed for its pyramids and temples. This course may be taken for 6 hours of credit. OFFERED IN THE SUMMER OF 1962.

Literary Tour of Europe, 1961

The English Department offers a summer travel course, English 3311-3312, visiting important literary

shrines in Europe. There will be lectures on and readings in European drama and English prose and poetry, with opportunities to see specimens of the drama (including Shakespeare and famous operas) in stage production. English 3311 can be substituted for English 232 and English 3312 can be taken for elective credit. Those who already have credit for 231-232

can count 3311-3312 for 6 hours of elective credit. Three hours of advanced credit may be applied toward an English major or an English teaching major. Students who are interested should see Mrs. Alan Strout, Department of English, in order to receive complete information and make reservations for inclusion in the class.

OUTLINE OF COURSES

Explanation of Course Numbers. The numbers used for designating courses are uniform in all schools of the College. From left to right, the first digit indicates the college year in which the course is normally taken; the second digit shows the semester-hour value of the course; the last digit (or digits) is the departmental course number. To illustrate: English 131 is a freshman course with a credit value of 3 semester hours. Courses numbered in the "0" series (031, 032, and 051) are deficiency courses and hours credited for these courses will be added to the normal degree requirement. See the current General Information Bulletin for further explanation.

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

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

The student should consult the appropriate school bulletin for course descriptions and prerequisites.

SCHOOL OF AGRICULTURE

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

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

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

Agricultural Economics

First Term

J. Wayland Bennett, Head

For Undergraduates

235. **FUNDAMENTALS OF AGRICULTURAL ECONOMICS.** Cr. 3. Mr. Rogers.
For Undergraduates and Graduates
431. **LIVESTOCK MARKETING.** Cr. 3.
Mr. Bennett.

For Graduates

533. **MARKETING PROBLEMS.** Cr. 3.
Mr. Bennett.
- 631, 632. **MASTER'S THESIS.** Cr. 3 each.
Staff.

Second Term

Walter B. Rogers, Acting Head

For Undergraduates and Graduates

430. **SPECIAL PROBLEMS IN AGRICULTURAL ECONOMICS.** Cr. 3.
Mr. Graves.

For Graduates

511. **SEMINAR.** Cr. 1. Mr. Graves.
- 631, 632. **MASTER'S THESIS.** Cr. 3 each.
Staff.

Agricultural Education

Ray L. Chappelle, Head

First Term

For Graduates

511. PROBLEMS. Cr. 1. Mr. Hargrave.
 522. ADVANCED METHODS IN HIGH SCHOOL VOCATIONAL AGRICULTURE. Cr. 2. Mr. Chappelle.
 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.
 631-632. MASTER'S THESIS. Cr. 3 each. Mr. Chappelle.

Second Term

For Graduates

511. PROBLEMS. Cr. 1. Mr. Hargrave.
 531. INVESTIGATION IN THE FIELD OF AGRICULTURAL EDUCATION. Cr. 3. Mr. Leach and Mr. Hargrave.
 631-632. MASTER'S THESIS. Cr. 3 each. Mr. Leach.

Agricultural Engineering

William F. Schwiesow, Acting Head

First Term

For Undergraduates and Graduates

430. AGRICULTURAL ENGINEERING PROBLEMS. Cr. 3. Mr. Schwiesow.

Agronomy

A. W. Young, Head

First Term

For Undergraduates

341. FUNDAMENTAL PRINCIPLES OF GENETICS. Cr. 4. 7½ lec. hrs., 6 lab hrs. Mr. Ayers.
 430. AGRONOMY PROBLEMS. Cr. 3. Arrange. Mr. Young.

For Undergraduates and Graduates

432. RANGE MANAGEMENT PROBLEMS. Cr. 3. Arrange. Mr. Thomas.
 434. SOIL CONSERVATION AND LAND USE PLANNING. Cr. 3. 6 lec. hrs., 6 lab. hrs. Mr. Young.

For Graduates

511. AGRONOMY SEMINAR. Cr. 1. Mr. Ayers.
 534. AGRONOMY RESEARCH. Cr. 3. Staff.
 631. MASTER'S THESIS. Cr. 3. Staff.
 632. MASTER'S THESIS. Cr. 3. Staff.

Second Term

For Undergraduates and Graduates

430. AGRONOMY PROBLEMS. Cr. 3. Arrange. Staff.

For Graduates

534. AGRONOMY RESEARCH. Cr. 3. Staff.
 631. MASTER'S THESIS. Cr. 3. Staff.
 632. MASTER'S THESIS. Cr. 3. Staff.

Animal Husbandry

Ralph M. Durham, Head

First Term

ANIMAL HUSBANDRY

For Undergraduates and Graduates

427. SWINE PRODUCTION. Cr. 2. Mr. Anderson.
 431. BEEF CATTLE PRODUCTION. Cr. 3. Mr. Durham.
 432. ANIMAL BREEDING. Cr. 3. Mr. Durham.

For Graduates

533. TECHNIQUES IN ANIMAL RESEARCH. Cr. 3. Mr. Anderson.
 534. RESEARCH IN ANIMAL NUTRITION. Cr. 3. Staff.
 631, 632. MASTER'S THESIS. Cr. 3, 3. Staff.

Second Term

ANIMAL HUSBANDRY

For Undergraduates

331. ANIMAL NUTRITION AND PRINCIPLES OF FEEDING. Cr. 3. Staff.

For Graduates

533. TECHNIQUES IN ANIMAL RESEARCH. Cr. 3. Staff.
 534. RESEARCH IN ANIMAL NUTRITION. Cr. 3. Staff.
 631, 632. MASTER'S THESIS. Cr. 3, 3. Staff.

VETERINARY SCIENCE

For Undergraduates

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

Dairy Industry

J. J. Willingham, Head

First Term

For Undergraduates

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.
632. **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.

632. **MASTER'S THESIS.** Cr. 3. Mr. Willingham.

Horticulture and Park Management

E. J. Urbanovsky, Head

First Term

ENTOMOLOGY

For Undergraduates and Graduates

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

HORTICULTURE

For Undergraduates and Graduates

425. **HORTICULTURE PROBLEMS.** Cr. 2.
Mr. Johnson, Mr. Ashdown.
430. **HORTICULTURE PROBLEMS.** Cr. 3.
Mr. Johnson, Mr. Ashdown.

SCHOOL OF ARTS AND SCIENCES

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

A continuing function of the summer school is to provide work for those who do not attend the regular session. Such work is particularly appropriate for teachers in service. Course offerings are designed at all levels to prepare teachers for the elementary or the secondary schools. Those interested in administrative,

supervisory, or counseling work will find an ample selection of courses.

Biology

Earl D. Camp, Head

First Term

BACTERIOLOGY

For Undergraduates and Graduates

- 331-332. **PRINCIPLES OF BACTERIOLOGY.**
Cr. 3 each. 12 lec. hrs., 18 lab. hrs. Mr. Sealey.

BIOLOGY

For Undergraduates

141. **BOTANY.** Cr. 4. 9 lec. hrs., 9 lab. hrs. Staff.
142.* **ZOOLOGY.** Cr. 4. 9 lec. hrs., 9 lab. hrs. Staff.

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

For Undergraduates and Graduates

331. **HEREDITY.** Cr. 3. 9 lec. hrs. Mr. Prior.
332. **TEACHING OF BIOLOGY.** Cr. 3. 9 lec. hrs. Mr. Cross.

BOTANY

For Undergraduates

232. **TAXONOMY.** Cr. 3. 6 lec. hrs., 9 lab. hrs. Staff.

For Undergraduates and Graduates

339. **PLANT ANATOMY.** Cr. 3. 6 lec. hrs., 9 lab. hrs. Mr. Cumble.

For Graduates

531. **PROBLEMS IN BOTANY.** Cr. 3. 18 lab. hrs. Staff.
- 535.* **FIELD BOTANY.** Cr. 3. 18 lab. hrs. Staff.

ENTOMOLOGY

For Undergraduates and Graduates

433. **INSECT NATURAL HISTORY.** Cr. 3. 6 lec. hrs., 9 lab. hrs. Mr. Huddleston.

ZOOLOGY

For Undergraduates

- 231-232. **COMPARATIVE VERTEBRATE ANATOMY.** Cr. 3 each. 12 lec. hrs., 18 lab. hrs. Mr. Landwer, Mr. Cross.

For Graduates

531. **PROBLEMS IN ZOOLOGY.** Cr. 3. 18 lab. hrs. Staff.
- 535.* **FIELD ZOOLOGY.** Cr. 3. 18 lab. hrs. Staff.
- 631-632. **MASTER'S THESIS.** Cr. 3 each.

Second Term

BACTERIOLOGY

For Undergraduates

231. **BACTERIOLOGY.** Cr. 3. 6 lec. hrs., 9 lab. hrs. Mr. Kuhnley.

BIOLOGY

For Undergraduates

142. **ZOOLOGY.** Cr. 4. 9 lec. hrs., 9 lab. hrs. Miss Bodemann.

ZOOLOGY

For Undergraduates and Graduates

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.
- 535.* **FIELD ZOOLOGY.** Cr. 3. 18 lab. hrs. Staff.

Chemistry

Joe Dennis, Head

First Term

For Undergraduates

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

For Undergraduates and Graduates
(Minors only)

341. **INTRODUCTORY ORGANIC CHEMISTRY.** Cr. 4. 9 lec. hrs., 9 lab. hrs. Mr. Lee
353. **ORGANIC CHEMISTRY.** Cr. 5. 9 lec. hrs., 18 lab. hrs. Mr. Dennis.

Second Term

For Undergraduates

142. **GENERAL CHEMISTRY.** Cr. 4. 9 lec. hrs., 9 lab. hrs. Mr. Rekers, Mr. Wilson.
354. **ORGANIC CHEMISTRY.** Cr. 5. 9 lec. hrs., 18 lab. hrs. Staff.

Education and Philosophy

Morris S. Wallace, Head

First Term

EDUCATION

For Undergraduates

130. **FOUNDATIONS OF EDUCATION.** Cr. 3. Mr. Gammill.
232. **EDUCATIONAL PSYCHOLOGY.** Cr. 3. Mr. Cooper, Mrs. Everton.
330. **PRINCIPLES OF SECONDARY EDUCATION.** Cr. 3. Mr. Garlin.
333. **ELEMENTARY CURRICULUM DEVELOPMENT.** Cr. 3. Mr. Mecham, Mrs. Everton.

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

334. CURRICULUM DEVELOPMENT IN SECONDARY EDUCATION. Cr. 3. Mr. Nagle.
335. ELEMENTARY EDUCATION METHODS. Cr. 3. Staff.
336. SECONDARY EDUCATION METHODS. Cr. 3. Mr. Southall.
432. STUDENT OBSERVATION AND TEACHING IN THE SECONDARY SCHOOL. Cr. 3. Mr. Southall.
434. ADVANCED STUDENT OBSERVATION AND TEACHING IN THE SECONDARY SCHOOL. Cr. 3. Mrs. Corhn.

For Undergraduates and Graduates

4315. AUDIO-VISUAL EDUCATION. Cr. 3. Mr. Davidson.
4325. CHILDREN'S LITERATURE. Cr. 3. Mrs. Wheeler.
4326. READING DEVELOPMENT IN THE ELEMENTARY SCHOOL. Cr. 3. Mr. Livingston.
4331. FOUNDATIONS OF EDUCATIONAL SOCIOLOGY. Cr. 3. Mr. Cooper.

For Graduates

5139. ADVANCED EDUCATION WORKSHOPS IN TEACHING AND ADMINISTRATION. Cr. 1-6. Mr. Fallon, Mr. Siefert, Mr. Webb.
539. ADMINISTRATION OF SCHOOL BUSINESS SERVICES. Cr. 3. Mr. Fallon.
5317. THE JUNIOR HIGH SCHOOL. Cr. 3. Mr. Webb.
5319. AUDIO-VISUAL PRODUCTION. Cr. 3. Mr. Davidson.
5321. INDIVIDUAL STUDY IN EDUCATION. Cr. 3. Staff.
5331. HUMAN DEVELOPMENT IN EDUCATION. Cr. 3. Mr. Mecham.
5341. DEVELOPING ARITHMETIC PROGRAMS IN ELEMENTARY EDUCATION. Cr. 3. Mrs. Wheeler.
5346. FUNDAMENTALS OF CURRICULUM DEVELOPMENT. Cr. 3. Mr. Mecham.
5351. GENERAL EDUCATION SEMINAR. Cr. 3. Mr. Garlin.
5371. SUPERVISION. Cr. 3. Mr. Wallace.
5372. DEVELOPING THE SCHOOL GUIDANCE PROGRAM. Cr. 3. Mr. Barnett.
- 631-632. MASTER'S THESIS SEMINAR. Cr. 6. Staff.
- 731, 732. DISSERTATION SEMINAR. Cr. 3 each. Staff.
- 831-832. DOCTOR'S DISSERTATION. Cr. 6. Staff.

PHILOSOPHY

For Undergraduates

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

For Graduates

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

Second Term

EDUCATION

For Undergraduates

130. FOUNDATIONS OF EDUCATION. Cr. 3. Mr. Gammill, Mrs. Everton.
232. EDUCATIONAL PSYCHOLOGY. Cr. 3. Mr. Cooper, Mr. Gammill.
330. PRINCIPLES OF SECONDARY EDUCATION. Cr. 3. Mr. Garlin.
333. ELEMENTARY CURRICULUM DEVELOPMENT. Cr. 3. Mrs. Everton.
334. CURRICULUM DEVELOPMENT IN SECONDARY EDUCATION. Cr. 3. Mr. Nagle, Mr. Webb.
335. ELEMENTARY EDUCATION METHODS. Cr. 3. Mr. Mecham.
336. SECONDARY EDUCATION METHODS. Cr. 3. Mr. Garlin.

For Undergraduates and Graduates

4315. AUDIO-VISUAL EDUCATION. Cr. 3. Staff.
4326. READING DEVELOPMENT IN THE ELEMENTARY SCHOOL. Cr. 3. Mrs. Wheeler.

For Graduates

5313. SUPERVISION IN THE SECONDARY SCHOOL. Cr. 3. Mr. Webb.
5321. INDIVIDUAL STUDY IN EDUCATION. Cr. 3. Staff.
5325. LEGAL BASES OF EDUCATION. Cr. 3. Mr. Cooper.
5331. HUMAN DEVELOPMENT IN EDUCATION. Cr. 3. Mr. Mecham.
5342. DEVELOPING READING PROGRAMS IN ELEMENTARY EDUCATION. Cr. 3. Mr. Livingston.
5343. DEVELOPING NATURAL AND PHYSICAL ENVIRONMENT CONCEPTS IN ELEMENTARY EDUCATION. Cr. 3. Mr. Nagle.
5344. DEVELOPING LANGUAGE ARTS PROGRAMS IN ELEMENTARY EDUCATION. Cr. 3. Mrs. Wheeler.
5366. THE ADMINISTRATION OF SCHOOL STAFF PERSONNEL. Cr. 3. Mr. Wallace.
5373. EVALUATION. Cr. 3. Mr. Fallon.
- 631-632. MASTER'S THESIS SEMINAR. Cr. 6. Staff.
- 731, 732. DISSERTATION SEMINAR. Cr. 3 each. Staff.
- 831-832. DOCTOR'S DISSERTATION. Cr. 6. Staff.

PHILOSOPHY

For Undergraduates

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

For Undergraduates and Graduates

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

English

First Term

Alan M. F. Gunn, Acting Head

For Undergraduates

131. COLLEGE RHETORIC. Cr. 3. Miss Miles, Mr. Godfrey, Mr. Davis, Mr. Rushing, Mr. Young.
132. COLLEGE RHETORIC. Cr. 3. Miss Carlock, Mrs. Wellborn, Mr. Brooks.
231. MASTERPIECES OF LITERATURE. Cr. 3. Mr. Davis, Mr. Murphy, Mr. McCullen, Mr. Rushing.
232. MASTERPIECES OF LITERATURE. Cr. 3. Mr. Eddleman, Mrs. Wellborn.
233. TECHNICAL WRITING FOR ENGINEERS. Cr. 3. Miss Miles.

For Undergraduates and Graduates

- 3311-3312. LITERARY TOUR OF EUROPE: A TRAVEL COURSE. Cr. 6. Mrs. Strout.
432. SHAKESPEARE. Cr. 3. Mr. Gunn.
439. AMERICAN ENGLISH. Cr. 3. Mr. Gunn.
4319. VICTORIAN LITERATURE. Cr. 3. Mr. Brooks.
4325. THE AMERICAN NOVEL AFTER 1900. Cr. 3. Miss Carlock.
4328. ENGLISH AND FOREIGN FICTION FROM 1825 TO 1910. Cr. 3. Mr. Murphy.

For Graduates

5335. PRINCIPLES OF LANGUAGE. Cr. 3. Mr. Gunn.
- 631-632. MASTER'S THESIS. Cr. 6. Staff.
- 731, 732. RESEARCH. Cr. 3 each. Staff.
- 831-832. DOCTOR'S DISSERTATION. Cr. 6. Staff.

Second Term

K. A. Nall, Acting Head

For Undergraduates

131. COLLEGE RHETORIC. Cr. 3. Mrs. Boze, Mrs. Russell.
132. COLLEGE RHETORIC. Cr. 3. Miss Lewis, Mr. Kinnamon.
231. MASTERPIECES OF LITERATURE. Cr. 3. Mr. Nall.
232. MASTERPIECES OF LITERATURE. Cr. 3. Mr. Gillis, Mr. Guilds.
233. TECHNICAL WRITING FOR ENGINEERS. Cr. 3. Miss Green.

For Undergraduates and Graduates

437. ADVANCED GRAMMAR. Cr. 3. Miss Green.
4323. AMERICAN LITERATURE AND ITS BACKGROUNDS. Cr. 3. Mr. Nall.
4329. MODERN BRITISH AND AMERICAN POETRY. Cr. 3. Mr. Gillis.

For Graduates

536. STUDIES IN AMERICAN LITERATURE TO 1865. Cr. 3. Mr. Guilds.
- 631-632. MASTER'S THESIS. Cr. 6. Staff.
- 731, 732. RESEARCH. Cr. 3 each. Staff.
- 831-832. DOCTOR'S DISSERTATION. Cr. 6. Staff.

Foreign Languages

First Term

John C. Dowling, Head

For Undergraduates

FRENCH

131. A BEGINNING COURSE IN FRENCH. Cr. 3. Mr. Bleckley.
231. A SECOND COURSE IN FRENCH. Cr. 3. Mr. Bleckley.

GERMAN

131. A BEGINNING COURSE IN GERMAN. Cr. 3. Mr. Alexander.
233. SCIENTIFIC GERMAN. Cr. 3. Mr. Alexander.

SPANISH

131. A BEGINNING COURSE IN SPANISH. Cr. 3. Staff.
231. A SECOND COURSE IN SPANISH. Cr. 3. Mr. Hamilton.
333. INTRODUCTION TO SPANISH AMERICAN LIFE AND LITERATURE. Cr. 3. Mr. Dowling.

For Undergraduates and Graduates

4315. THE DRAMA OF THE GOLDEN AGE. Cr. 3. Mr. Hamilton.

METHODS

4311. TEACHERS' COURSE IN METHODS OF TEACHING FOREIGN LANGUAGES. Cr. 3. Staff. Open only to participants in the NDEA Institute for Teachers of Spanish.

METHODS**For Graduates**

5311. **LABORATORY TECHNIQUES IN FOREIGN LANGUAGE TEACHING.** Cr. 3. Staff. Open only to participants in the NDEA Institute for Teachers of Spanish.

SPANISH

5312. **STUDIES IN SPANISH AND SPANISH AMERICAN LITERATURE.** Cr. 3. Mr. Dowling.
5335. **SPANISH IN THE ELEMENTARY SCHOOL.** Cr. 3. Staff. Open only to participants in the NDEA Institute for Teachers of Spanish.
- 631-632. **MASTER'S THESIS.** Cr. 6. Staff.

Second Term

Eunice J. Gates, Acting Head

For Undergraduates**FRENCH**

132. **A BEGINNING COURSE IN FRENCH.** Cr. 3. Mrs. Alexander.
232. **A SECOND COURSE IN FRENCH.** Cr. 3. Mrs. Alexander.

GERMAN

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

SPANISH

132. **A BEGINNING COURSE IN SPANISH.** Cr. 3. Mrs. Tucker.
232. **A SECOND COURSE IN SPANISH.** Cr. 3. Mrs. Gates.
334. **INTRODUCTION TO SPANISH AMERICAN LIFE AND LITERATURE.** Cr. 3. Mrs. Gates.

For Undergraduates and Graduates

437. **ADVANCED GRAMMAR AND COMPOSITION.** Cr. 3. Mrs. Tucker.

For Graduates

5313. **STUDIES IN SPANISH AND SPANISH AMERICAN LITERATURE.** Cr. 3. Staff.
- 631-632. **MASTER'S THESIS.** Cr. 6. Staff.

Geology

F. Alton Wade, Head

First Term**For Undergraduates**

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

For Undergraduates and Graduates

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

For Graduates

563. **ADVANCED FIELD GEOLOGY.** Cr. 6. Mr. Mattox.
- 631-632. **MASTER'S THESIS.** Cr. 6. Staff.

Second Term**For Undergraduates**

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

For Graduates

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

Government

J. William Davis, Head

First Term**For Undergraduates**

233. **AMERICAN GOVERNMENT, ORGANIZATION.** Cr. 3. Staff.
234. **AMERICAN GOVERNMENT, FUNCTIONS.** Cr. 3. Staff.

For Undergraduates and Graduates

333. **AMERICAN POLITICAL IDEAS.** Cr. 3. Mr. Davis.
337. **PUBLIC ADMINISTRATION, ORGANIZATION.** Cr. 3. Mr. Jackson.
3317. **MEXICAN AND CARIBBEAN GOVERNMENTS.** Cr. 3. Mr. Mack.
437. **POLITICAL GEOGRAPHY.** Cr. 3. Mr. Kennedy.

For Graduates

531. **READING AND RESEARCH.** Cr. 3. Staff.
631. **MASTER'S THESIS.** Arrange. Staff.

Second Term**For Undergraduates**

233. **AMERICAN GOVERNMENT, ORGANIZATION.** Cr. 3. Staff.

234. AMERICAN GOVERNMENT, FUNCTIONS. Cr. 3. Staff.

For Undergraduates and Graduates

331. LOCAL GOVERNMENT. Cr. 3. Mr. Jackson.
334. POLITICAL PARTIES. Cr. 3. Mr. Oden.
335. INTERNATIONAL POLITICS. Cr. 3. Mr. Fuller.
3318. SOUTH AMERICAN GOVERNMENTS. Cr. 3. Mr. Mack.

For Graduates

531. READING AND RESEARCH. Cr. 3. Staff.
632. MASTER'S THESIS. Arrange. Staff.

Health, Physical Education, and Recreation — Men

Ramon W. Kireillis, Head

First Term

For Undergraduates

Men

- 013.* ADVANCED SWIMMING. Cr. 1. Mr. Kireillis.
017. GOLF. Cr. 1. Mr. Jennings.
0111.** BOWLING. Cr. 1. Mr. Jennings.
0112. WEIGHT LIFTING. Cr. 1. Mr. Kireillis.

For Undergraduates and Graduates

Men and Women

438. CURRICULUM DEVELOPMENT IN PHYSICAL EDUCATION. Cr. 3. Mr. Kireillis.
4321.*** METHODS AND TECHNIQUES OF DRIVER INSTRUCTION. Cr. 3. Mr. Cobb.
4326. SAFETY EDUCATION. Cr. 3. Mr. Cobb.

For Graduates

Men and Women

534. ADMINISTRATION OF THE SCHOOL HEALTH PROGRAM. Cr. 3. Mr. Kireillis.

Men

5322. ORGANIZATION AND ADMINISTRATION OF INTERSCHOLASTIC AND INTERCOLLEGIATE ATHLETIC PROGRAMS. Cr. 3. Mr. Jennings.

Second Term

For Undergraduates

Men

- 0111.** BOWLING. Cr. 1. Mr. Philbrick.

For Graduates

Men

5324. ORGANIZATION AND ADMINISTRATION OF INTRAMURAL SPORTS. Cr. 3. Mr. Philbrick.

Health, Physical Education, and Recreation — Women

First Term

Dorothy Hoyle, Acting Head

For Undergraduates

Women

- 112.** BEGINNING BOWLING. Cr. 1. Miss Hoyle.
212. BEGINNING TENNIS. Cr. 1. Miss Rollo.
2111. BEGINNING GOLF. Cr. 1. Miss Rollo.
2112.* BEGINNING SWIMMING. Cr. 1. Miss Rollo.
2115. BEGINNING BADMINTON. Cr. 1. Miss Hoyle.
2117. BEGINNING ARCHERY. Cr. 1. Miss Rollo.

Men and Women

230. METHODS OF TEACHING HEALTH IN THE ELEMENTARY AND SECONDARY SCHOOLS. Cr. 3. Miss Hoyle.

Second Term

Sue A. Rainey, Acting Head

For Undergraduates

Women

212. BEGINNING TENNIS. Cr. 1. Miss Rainey.
2117. BEGINNING ARCHERY. Cr. 1. Miss Rainey.

Men and Women

233. METHODS OF TEACHING PHYSICAL EDUCATION IN THE ELEMENTARY SCHOOL. Cr. 3. Miss Rainey.

*Course Fee, \$5.

**Bowling alley charge, \$10.

***Special fee, \$20.

History and Anthropology

D. M. Vigness, Acting Head

First Term

HISTORY

For Undergraduates

131. **DEVELOPMENT OF CIVILIZATIONS.** Cr. 3. Mr. Blaisdell.
231. **HISTORY OF THE UNITED STATES TO 1865.** Cr. 3. Mr. Graves, Mr. Smith, Mr. Lawyer, Mr. Kenner, Mr. Moore, Mr. Marcum.
232. **HISTORY OF THE UNITED STATES SINCE 1865.** Cr. 3. Mr. Woods.
330. **HISTORY OF TEXAS.** Cr. 3. Formerly 235. Mr. Wallace.
3317. **HISTORY OF MILITARY AFFAIRS.** Cr. 3. Mr. Woods.

For Undergraduates and Graduates

436. **SOCIAL AND CULTURAL HISTORY OF THE UNITED STATES TO 1865.** Cr. 3. Mr. Graves.

For Graduates

5335. **HISTORY APPRECIATION FOR TEACHERS.** Cr. 3. Mr. Wallace.
5359. **HISTORY OF RUSSIA.** Cr. 3. Formerly 4331. Mr. Smith.
5368. **EUROPE SINCE 1918.** Cr. 3. Formerly 4336. Mr. Blaisdell.
631. **MASTER'S THESIS.** Cr. 3. Staff.
731. **DOCTORAL RESEARCH.** Cr. 3. Staff.
831. **DOCTORAL DISSERTATION.** Cr. 3. Staff.

ANTHROPOLOGY

For Undergraduates

131. **THE NATURE OF MAN.** Cr. 3. Mr. Holden.
232. **CULTURAL ANTHROPOLOGY.** Cr. 3. Mr. Holden.

For Undergraduates and Graduates

- 536-537. **ARCHAEOLOGY OF MEXICO: A FIELD COURSE.** Cr. 6. Formerly 336-337. Mr. Kelley.

Second Term

HISTORY

For Undergraduates

132. **DEVELOPMENT OF CIVILIZATIONS.** Cr. 3. Mr. Ware.

231. **HISTORY OF THE UNITED STATES TO 1865.** Cr. 3. Mr. Holden.
232. **HISTORY OF THE UNITED STATES SINCE 1865.** Cr. 3. Mr. DeLaRue, Mr. Dillon, Mr. Donovan, Mrs. Coolsen.
330. **HISTORY OF TEXAS.** Cr. 3. Formerly 235. Mr. Vigness.
3324. **THE UNITED STATES IN THE TWENTIETH CENTURY.** Cr. 3. Mr. Donovan.

For Undergraduates and Graduates

4361. **CLASSICAL CIVILIZATIONS: GREECE AND ROME.** Cr. 3. Formerly 331. Mr. Ware.

For Graduates

531. **PROSEMINAR IN TEXAS HISTORY.** Cr. 3. Mr. Holden.
5323. **SPANISH NORTH AMERICA.** Cr. 3. Formerly 4323. Mr. Vigness.
632. **MASTER'S THESIS.** Cr. 3. Staff.
634. **SEMINAR IN AMERICAN HISTORY.** Cr. 3. Mr. Dillon.
732. **DOCTORAL RESEARCH.** Cr. 3. Staff.
832. **DOCTORAL DISSERTATION.** Cr. 3. Staff.

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 and Astronomy

Emmett Hazlewood, Head

First Term

For Undergraduates

- 130.* **ALGEBRA.** Cr. 3. Miss McGlothlin. (For students planning to take not more than 6 credit hours of mathematics.)
131. **TRIGONOMETRY.** Cr. 3. Mrs. Rowland.
132. **ANALYTIC GEOMETRY.** Cr. 3. Mr. Morton.

* Not more than 3 semester hours' credit, applicable to a degree, may be obtained from 051, 052, 130, 133, 135, or any combination thereof.

- 133.* **COLLEGE ALGEBRA.** Cr. 3. Mr. Willingham, Mrs. Carpenter. (Required of engineering, science and mathematics majors.)
- 135.* **MATHEMATICS IN GENERAL EDUCATION.** Cr. 3. Staff. (Primarily for elementary education majors.)
138. **MATHEMATICS OF FINANCE.** Cr. 3. Miss McGlothlin.
231. **DIFFERENTIAL CALCULUS.** Cr. 3. Mrs. Rowland, Mrs. Carpenter.
232. **INTEGRAL CALCULUS.** Cr. 3. Mrs. Bailey, Mrs. Roberts.

For Undergraduates and Graduates

331. **APPLICATIONS OF CALCULUS.** Cr. 3. Mr. Andrews, Mr. Willingham.
332. **DIFFERENTIAL EQUATIONS.** Cr. 3. Mrs. Roberts, Mr. Morton.
335. **HIGHER MATHEMATICS FOR ENGINEERS AND SCIENTISTS.** Cr. 3. Mr. Andrews.
337. **COLLEGE GEOMETRY.** Cr. 3. Mr. Parker. (For high school teachers in NSF program.)
434. **ADVANCED CALCULUS.** Cr. 3. Mr. Hazlewood.
439. **VECTOR ANALYSIS.** Cr. 3. Mr. Gilmore.
4314. **MATHEMATICAL STATISTICS.** Cr. 3. Mr. Riggs. (For high school teachers in NSF program.)
4321. **ELEMENTARY MODERN ALGEBRA.** Cr. 3. Mr. Fuller. (For high school teachers in NSF program.)

For Graduates

531. **ADVANCED PROBLEMS.** Cr. 3. Mr. Bassam, Mr. Fuller, Mr. Parker. (Two sections for teachers in NSF program, one section for other students.)
538. **FOUNDATIONS OF MATHEMATICS.** Cr. 3. Mr. Hazlewood.
5312. **FUNCTIONS OF A COMPLEX VARIABLE.** Cr. 3. Mr. Bassam.
- 631-632. **MASTER'S THESIS.** Cr. 6. Staff.

Second Term

For Undergraduates

- 052.* **COLLEGE ALGEBRA.** Cr. 5. Mr. Scott. (For engineering students and science majors whose test scores indicate a deficiency in high school algebra.)
- 130.* **ALGEBRA.** Cr. 3. Mrs. Sullenberger. (For students planning to take not more than 6 credit-hours of mathematics.)
131. **TRIGONOMETRY.** Cr. 3. Mrs. Sullenberger.
132. **ANALYTIC GEOMETRY.** Cr. 3. Mr. Duke.
- 133.* **COLLEGE ALGEBRA.** Cr. 3. Mr. Scott. (Required of engineering, science and mathematics majors.)

138. **MATHEMATICS OF FINANCE.** Cr. 3. Mr. Smith.
231. **DIFFERENTIAL CALCULUS.** Cr. 3. Mr. Smith, Mr. Duke.
232. **INTEGRAL CALCULUS.** Cr. 3. Mr. Hazlewood.

For Undergraduates and Graduates

331. **APPLICATIONS OF CALCULUS.** Cr. 3. Mr. Shurbet.
332. **DIFFERENTIAL EQUATIONS.** Cr. 3. Mr. Gilmore.
336. **HIGHER MATHEMATICS FOR ENGINEERS AND SCIENTISTS.** Cr. 3. Mr. Shurbet.
337. **COLLEGE GEOMETRY.** Cr. 3. Mr. Parker.
433. **THEORY OF EQUATIONS.** Cr. 3. Mr. Woodward.
435. **ADVANCED CALCULUS.** Cr. 3. Mr. Woodward.
4314. **MATHEMATICAL STATISTICS.** Cr. 3. Mr. Parker.

For Graduates

531. **ADVANCED PROBLEMS.** Cr. 3. Mr. Hazlewood.
5313. **FUNCTIONS OF A COMPLEX VARIABLE.** Cr. 3. Mr. Bassam.
- 631-632. **MASTER'S THESIS.** Cr. 6.

Music

Gene Hemmle, Head

First Term

APPLIED MUSIC

For Undergraduates

Private Instruction

- 115, 116, 215, 216, 315, 316. **APPLIED MUSIC.** Baritone, Clarinet, Cornet, Flute, French Horn, Organ, Piano, Saxophone, Trombone, Tuba, Voice, Bassoon, Oboe, Cr. 1 each. $\frac{3}{4}$ lec. hr. $7\frac{1}{2}$ prac. hrs. each. Mr. Post, Mr. Lawrie, Mr. McCarty, Mrs. Thomerson, Mr. Tolley.
- 025, 026, 125, 126. **APPLIED MUSIC.** Baritone, Clarinet, Cornet, Flute, French Horn, Organ, Piano, Saxophone, Trombone, Tuba, Voice, Bassoon, Oboe, Cr. 2 each. $1\frac{1}{2}$ lec. hrs., 15 prac. hrs. each. Mr. Post, Mr. Lawrie, Mr. McCarty, Mrs. Thomerson, Mr. Tolley.
- 225, 226. **APPLIED MUSIC.** Baritone, Clarinet, Cornet, Flute, French Horn, Organ, Piano, Saxophone, Trombone, Tuba, Voice, Bassoon, Oboe, Cr. 2 each. $1\frac{1}{2}$ lec. hrs. 15 prac. hrs. each. Mr. Post, Mr. Lawrie, Mr. McCarty, Mrs. Thomerson, Mr. Tolley.

* Not more than 3 semester hours' credit, applicable to a degree, may be obtained from 051, 052, 130, 133, 135, or any combination thereof.

- 235, 236. **APPLIED MUSIC.** Voice or piano. Cr. 3 each. $1\frac{1}{2}$ lec. hrs., 21 prac. hrs. each. Mr. Post, Mr. Lawrie.
- 325, 326. **APPLIED MUSIC.** Baritone, Clarinet, Cornet, Flute, French Horn, Organ, Piano, Saxophone, Trombone, Tuba, Voice, Bassoon, Oboe. Cr. 2 each, $1\frac{1}{2}$ lec. hrs., 15 prac. hrs. each. Mr. Post, Mr. Lawrie, Mr. McCarty, Mrs. Thomerson, Mr. Tolley.
- 345, 346. **APPLIED MUSIC.** Voice or piano. Cr. 4 each. $1\frac{1}{2}$ lec. hrs., 21 prac. hrs. each. Mr. Post, Mr. Lawrie.

For Undergraduates and Graduates

- 425, 426. **APPLIED MUSIC.** Baritone, Clarinet, Cornet, Flute, French Horn, Organ, Piano, Saxophone, Trombone, Tuba, Voice, Bassoon, Oboe. Cr. 2 each. $1\frac{1}{2}$ lec. hrs., 15 prac. hrs. each. Mr. Post, Mr. Lawrie, Mr. McCarty, Mrs. Thomerson, Mr. Tolley.
- 435, 436. **APPLIED MUSIC.** Baritone, Clarinet, Cornet, Flute, French Horn, Organ, Piano, Saxophone, Trombone, Tuba, Voice, Bassoon, Oboe. Cr. 3 each. $1\frac{1}{2}$ lec. hrs., 21 prac. hrs. each. Mr. Lawrie, Mr. McCarty, Mrs. Thomerson, Mr. Tolley.
- 445, 446. **APPLIED MUSIC.** Voice or piano. Cr. 4 each. $1\frac{1}{2}$ lec. hrs., 21 prac. hrs. each. Mr. Post, Mr. Lawrie.

MUSIC EDUCATION

For Undergraduates

231. **MUSIC FOR CLASSROOM TEACHERS.** Cr. 3. Mr. Tolley.

For Graduates

531. **SEMINAR IN MUSIC EDUCATION.** Cr. 3. Mr. Hemmle.
532. **CHORAL MUSIC WORKSHOP.** Cr. 3. Mr. Hemmle.
533. **INSTRUMENTAL MUSIC WORKSHOP.** Cr. 3. Mr. Killion.
537. **INSTRUMENTAL REPERTOIRE.** Cr. 3. Mr. Killion.
5335. **MUSIC FOR CHILDREN.** Cr. 3. Mr. Killion.

APPLIED MUSIC

Second Term

For Undergraduates

Private Instruction

- 115, 116, 215, 216, 315, 316. **APPLIED MUSIC.** Voice, Piano. Cr. 1 each. $\frac{3}{4}$ lec. hr., $7\frac{1}{2}$ prac. hrs. each. Mr. Post, Mr. Lawrie.
- 025, 026, 125, 126. **APPLIED MUSIC.** Voice, Piano. Cr. 2 each. $1\frac{1}{2}$ lec. hrs., 15 prac. hrs. each. Mr. Post, Mr. Lawrie.
- 225, 226. **APPLIED MUSIC.** Voice, Piano. Cr. 2 each. $1\frac{1}{2}$ lec. hrs., 21 prac. hrs. each. Mr. Post, Mr. Lawrie.

- 235, 236. **APPLIED MUSIC.** Voice, Piano. Cr. 3 each. $1\frac{1}{2}$ lec. hrs., 21 prac. hrs. each. Mr. Post, Mr. Lawrie.
- 325, 326. **APPLIED MUSIC.** Voice, Piano. Cr. 2 each. $1\frac{1}{2}$ lec. hrs., 15 prac. hrs. each. Mr. Post, Mr. Lawrie.
- 345, 346. **APPLIED MUSIC.** Voice or piano. Cr. 4 each. $1\frac{1}{2}$ lec. hrs., 21 prac. hrs. each. Mr. Post, Mr. Lawrie.

For Undergraduates and Graduates

- 425, 426. **APPLIED MUSIC.** Voice, Piano. Cr. 2 each. $1\frac{1}{2}$ lec. hrs., 15 prac. hrs. each. Mr. Post, Mr. Lawrie.
- 435, 436. **APPLIED MUSIC.** Piano, Voice. Cr. 3 each. $1\frac{1}{2}$ lec. hrs., 21 prac. hrs. each. Mr. Post, Mr. Lawrie.
- 445, 446. **APPLIED MUSIC.** Voice or Piano. Cr. 4 each. $1\frac{1}{2}$ lec. hrs., 21 prac. hrs. each. Mr. Post, Mr. Lawrie.

MUSIC EDUCATION

For Undergraduates

232. **ELEMENTARY MUSIC PRINCIPLES, PRACTICES, AND MATERIALS.** Cr. 3. Mr. Elliott.

For Graduates

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

Physics

H. C. Thomas, Head

First Term

For Undergraduates

141. **GENERAL PHYSICS.** Cr. 4. 9 lec. hrs., 9 lab. hrs. Mr. Schmidt.
215. **PHYSICAL MEASUREMENT.** Cr. 1. 9 lab. hrs. Mr. Gott.
235. **ENGINEERING PHYSICS.** Cr. 3. 9 lec. hrs. Mr. Basford.
335. **ELECTRICITY AND MAGNETISM.** Cr. 3. 9 lec. hrs. Mr. Gardner.
337. **INTRODUCTION TO ATOMIC PHYSICS.** Cr. 3. 9 lec. hrs. Mr. Gott.

For Graduates

530. **ADVANCED TOPICS.** Cr. 3. 9 lec. hrs. Mr. Gardner.
- 631-632. **MASTER'S THESIS.** Cr. 6. Staff.

Second Term

For Undergraduates

142. **GENERAL PHYSICS.** Cr. 4. 9 lec. hrs., 9 lab. hrs. Mr. Day.
216. **PHYSICAL MEASUREMENT.** Cr. 1. 9 lab. hrs. Mr. Basford.

236. **ENGINEERING PHYSICS.** Cr. 3. 9 lec. hrs. Mr. Mann.
336. **ELECTRICITY AND MAGNETISM.** Cr. 3. 9 lec. hrs. Mr. Gardner.
338. **INTRODUCTION TO NUCLEAR PHYSICS.** Cr. 3. 9 lec. hrs. Mr. Mann.

For Graduates

530. **ADVANCED TOPICS.** Cr. 3. 9 lec. hrs. Mr. Gardner.
- 631-632. **MASTER'S THESIS.** Cr. 6. Staff.

Psychology

Sylvan J. Kaplan, Head

First Term

For Undergraduates

130. **INTRODUCTION TO PSYCHOLOGY.** Cr. 3. Miss Boyd.
230. **GENERAL PSYCHOLOGY.** Cr. 3. Mr. Pereboom.
330. **PSYCHOLOGY IN BUSINESS AND INDUSTRY.** Cr. 3. Mr. Kuntz.
331. **CHILD PSYCHOLOGY.** Cr. 3. Miss Boyd.
333. **STATISTICAL METHODS.** Cr. 3. Mr. Pereboom.
335. **ADOLESCENT PSYCHOLOGY.** Cr. 3. Mr. Barnett.
435. **ABNORMAL PSYCHOLOGY.** Cr. 3. Mr. Anderson.
436. **PERSONALITY DEVELOPMENT.** Cr. 3. Mr. Reevy.
4312. **METHODS IN CLINICAL PSYCHOLOGY.** Cr. 3. Mr. Reevy.

For Graduates

539. **OCCUPATIONAL INFORMATION.** Cr. 3. Mr. Anderson.
5314. **TESTS AND MEASUREMENTS.** Cr. 3. Mr. Vialle.
5316. **INTRODUCTION TO ADJUSTMENT COUNSELING.** Cr. 3. Miss Cobb.
- 631-632. **MASTER'S THESIS.** Cr. 6. Staff.
- 731-732. **DOCTORAL RESEARCH.** Cr. 6. Staff.
- 831-832. **DOCTORAL DISSERTATION.** Cr. 6. Staff.

Second Term

For Undergraduates

130. **INTRODUCTION TO PSYCHOLOGY.** Cr. 3. Miss Boyd.
331. **CHILD PSYCHOLOGY.** Cr. 3. Miss Boyd.
332. **MENTAL HEALTH.** Cr. 3. Mr. Melching.

335. **ADOLESCENT PSYCHOLOGY.** Cr. 3. Mrs. Attneave.
4326. **INDIVIDUAL PROBLEMS COURSE.** Cr. 3. Mr. Strong.
4327. **PHYSIOLOGICAL PSYCHOLOGY.** Cr. 3. Mr. Strong.

For Graduates

532. **PROBLEMS IN PSYCHOLOGY.** Cr. 3. Miss Cobb.
534. **PRACTICUM IN PSYCHOLOGICAL TESTING.** Cr. 3. Mr. Vialle.
5317. **TECHNIQUES OF COUNSELING AND CAREER GUIDANCE.** Cr. 3. Mrs. Attneave.
- 631-632. **MASTER'S THESIS.** Cr. 6. Staff.
- 731-732. **DOCTORAL RESEARCH.** Cr. 6. Staff.
- 831-832. **DOCTORAL DISSERTATION.** Cr. 6. Staff.

Sociology

W. G. Steglich, Head

First Term

For Undergraduates

230. **INTRODUCTION TO SOCIOLOGY.** Cr. 3. Staff.
235. **THE SOCIOLOGY OF MARRIAGE.** Cr. 3. Mr. Steglich.

For Undergraduates and Graduates

433. **CRIMINOLOGY.** Cr. 3. Staff.

Second Term

For Undergraduates

230. **INTRODUCTION TO SOCIOLOGY.** Cr. 3. Staff.
233. **CURRENT SOCIAL PROBLEMS.** Cr. 3. Staff.
235. **THE SOCIOLOGY OF MARRIAGE.** Cr. 3. Mr. Steglich.

Speech

First Term

Bernard A. Landes, Acting Head

For Undergraduates

239. **SPEECH DEVELOPMENT FOR TEACHER COMPETENCE.** Cr. 3. Mrs. Mariner.
338. **BUSINESS AND PROFESSIONAL SPEECH.** Cr. 3. Mrs. Mariner.

For Undergraduates and Graduates

- 3313-3314. **EUROPEAN THEATER TOUR.** Cr. 6. Mr. Schulz.
 4318. **INTRODUCTION TO SPEECH CORRECTION.** Cr. 3. Mr. Landes.
 4321-4322. **SUPERVISED CLINICAL PRACTICE IN SPEECH CORRECTION.** Cr. 3 each. Mr. Landes.

For Graduates

531. **STUDIES AND PROBLEMS IN SPEECH.** Cr. 3. Staff.
 631-632. **MASTER'S THESIS.** Cr. 6. Staff.

Second Term

Ronald Schulz, Acting Head

For Undergraduates

239. **SPEECH DEVELOPMENT FOR TEACHER COMPETENCE.** Cr. 3. Mrs. Mariner.
 319. **THEATER ACTIVITIES.** Cr. 1. Mr. Schulz.
 338. **BUSINESS AND PROFESSIONAL SPEECH.** Cr. 3. Mrs. Mariner.

For Undergraduates and Graduates

4325. **DIRECTING SCHOOL SPEECH ACTIVITIES.** Cr. 3. Mr. Schulz. (July 17 - Aug. 5)

For Graduates

531. **STUDIES AND PROBLEMS IN SPEECH.** Cr. 3. Mr. Landes.
 631-632. **MASTER'S THESIS.** Cr. 6. Staff.

Biblical Literature

First Term

For Undergraduates

213. **BOOK OF JAMES.** Cr. 1. Mr. A. Wayne Harris.
 223. **BOOK OF ROMANS.** Cr. 2. Mr. A. Wayne Harris.

Second Term

For Undergraduates

212. **THE PSALMS.** Cr. 1. Mr. S. L. Harris.
 222. **BOOK OF REVELATION.** Cr. 2. Mr. S. L. Harris.

SCHOOL OF BUSINESS ADMINISTRATION

The 1961 summer session makes available courses in all departments in the School of Business Administration. Programs of study are offered for students at all levels from freshman through graduate standing.

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

Attention is given to the needs of all graduate students in business administration and in particular to business teachers. The 1961 summer session provides the graduate business teacher a program of courses leading toward either the Master of Business Administration or the Master of Education Degree with a major in business education.

Accounting

Reginald Rushing, Head

First Term

For Undergraduates

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

For Undergraduates and Graduates

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

For Graduates

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

Second Term

For Undergraduates

245. **ELEMENTARY ACCOUNTING II.** Cr. 4. 7½ lec. hrs., 7½ lab. hrs. Mr. Green.
246. **MACHINE ACCOUNTING.** Cr. 4. 7½ lec. hrs., 7½ lab. hrs. Mrs. Eaves.
335. **INTERMEDIATE ACCOUNTING II.** Cr. 3. Mr. Norwood.

For Undergraduates and Graduates

430. **INCOME TAX ACCOUNTING.** Cr. 3. Mr. Chisholm.
435. **ADVANCED ACCOUNTING II.** Cr. 3. Mr. Rushing.
438. **ADVANCED AUDITING.** Cr. 3. Mr. Chisholm.

For Graduates

531. **CONTROLLERSHIP.** Cr. 3. Mr. Norwood.
632. **MASTER'S THESIS.** Cr. 3. Mr. Rushing.

Business Education and Secretarial Administration

First Term

William R. Pasewark, Head

BUSINESS EDUCATION

For Graduates

531. **IMPROVEMENT OF INSTRUCTION IN BUSINESS SUBJECTS.** Cr. 3. Mr. Carmichael.
535. **SEMINAR IN BUSINESS EDUCATION.** Cr. 3. Mr. Pasewark.

SECRETARIAL ADMINISTRATION

For Undergraduates

333. **BUSINESS CORRESPONDENCE.** Cr. 3. Mrs. Ewing.

Second Term

D. L. Carmichael, Acting Head

For Undergraduates

327. **REPORT WRITING.** Cr. 2. Mr. Carmichael.

Economics and Finance

Robert L. Rouse, Head

First Term

For Undergraduates

133. **THE DEVELOPMENT OF AMERICAN BUSINESS AND ECONOMIC INSTITUTIONS I.** Cr. 3. Mr. Wittman.
231. **PRINCIPLES OF ECONOMICS I.** Cr. 3. Mr. Walker, Mr. Wiesen.
326. **RESEARCH IN ECONOMICS AND BUSINESS.** Cr. 2. Mr. Clover.

For Graduates

531. **ECONOMIC RESEARCH.** Cr. 3. Mr. Clover.
534. **SEMINAR IN CONTEMPORARY ECONOMIC PROBLEMS.** Cr. 3. Mr. Walker.
631. **MASTER'S THESIS.** Cr. 3. Staff.
632. **MASTER'S THESIS.** Cr. 3. Staff.

FINANCE

For Undergraduates

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

For Graduates

531. **CURRENT FINANCIAL PROBLEMS.** Cr. 3. Staff.
631. **MASTER'S THESIS.** Cr. 3. Staff.
632. **MASTER'S THESIS.** Cr. 3. Staff.

BUSINESS LAW

For Undergraduates

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

Second Term

ECONOMICS

For Undergraduates

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

For Undergraduates and Graduates

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

For Graduates

5335. **HUMAN GEOGRAPHY.** Cr. 3. Mr. Clover.
 631. **MASTER'S THESIS.** Cr. 3. Staff.
 632. **MASTER'S THESIS.** Cr. 3. Staff.

FINANCE

For Undergraduates

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

For Undergraduates and Graduates

434. **INVESTMENTS.** Cr. 3. Staff.

For Graduates

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

BUSINESS LAW

For Undergraduates

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

Management

First Term

F. L. Mize, Head

For Undergraduates

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

For Undergraduates and Graduates

433. **LABOR LEGISLATION.** Cr. 3. Mr. Mize.

For Graduates

631. **MASTER'S THESIS.** Cr. 3. Mr. Mize.

Second Term

Wm. G. Cain, Acting Head

For Undergraduates

331. **INDUSTRIAL MANAGEMENT.** Cr. 3. Mr. Hubbard.
 334. **PERSONNEL ADMINISTRATION.** Cr. 3. Mr. Cain.

For Graduates

534. **SEMINAR IN MANAGEMENT.** Cr. 3. Mr. Cain.
 632. **MASTER'S THESIS.** Cr. 3. Mr. Cain.

Marketing

First Term

John A. Ryan, Head

For Undergraduates

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

For Undergraduates and Graduates

439. **SALES MANAGEMENT.** Cr. 3. Mr. Ryan.

Second Term

Howard E. Golden, Acting Head

For Undergraduates

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

For Undergraduates and Graduates

433. **MARKETING PROBLEMS.** Cr. 3. Staff.

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.

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 is deficient in high school algebra or plane geometry, could, with profit, attend the summer session in order to remove these conditions.

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

Any freshman who has attended during the 1960-1961 long session, and who has not completed the work of the freshman year should plan to take courses which he lacks in the summer session, and thus become a regular sophomore next fall.

Architecture and Allied Arts

Nolan E. Barrick, Head

First Term

ALLIED ARTS

For Undergraduates and Graduates

421. **ART WORKSHOP.** Cr. 2. 18 lab hrs. Mr. Parkinson.

ARCHITECTURE

For Undergraduates

141. **PRINCIPLES OF DESIGN, GRADE I.** Cr. 4. 3 lec. hrs, 27 lab. hrs. Mr. Howze.

Second Term

ALLIED ARTS

For Undergraduates and Graduates

421. **ART WORKSHOP.** Cr. 2. 18 lab hrs. Mrs. Sasser.

For Graduates

5335. **ART IN THE MODERN WORLD.** Cr. 3. 9 lec. hrs. Mrs. Sasser.

ARCHITECTURE

For Undergraduates

142. **PRINCIPLES OF DESIGN, GRADE I.** Cr. 4. 3 lec. hrs, 27 lab hrs. Miss Houghton.

Chemical Engineering

John R. Bradford, Acting Head

First Term

For Undergraduates

237. **ENGINEERING MATERIALS.** Cr. 3. Staff.

For Graduates

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

Second Term

For Undergraduates

244. **INTRODUCTION TO CHEMICAL ENGINEERING.** Cr. 4. 9 lec. hrs., 9 lab. hrs. Staff.

For Graduates

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

Civil Engineering

J. H. Murdough, Head

First Term

For Undergraduates

231. **PLANE SURVEYING.** Cr. 3. 6 lec. hrs., 9 lab hrs. Mr. Schnerr.
233. **APPLIED MECHANICS, STATICS.** Cr. 3. 9 lec. hrs. Mr. Aldridge.

320. **STRUCTURES.** Cr. 2. 6 lec. hrs., 6 lab hrs. Mr. Sanger.
332. **APPLIED MECHANICS. KINEMATICS AND KINETICS.** Cr. 3. 9 lec. hrs. Mr. Kiesling, Mr. Murdough, Mr. Whetstone.
333. **APPLIED MECHANICS. STRENGTH OF MATERIALS.** Cr. 3. 9 lec. hrs. Mr. Kiesling, Mr. LeFevre.
337. **STRUCTURAL MECHANICS.** Cr. 3. 9 lec. hrs. Mr. Sanger.
339. **FLUID MECHANICS.** Cr. 3. 9 lec. hrs. Mr. Whetstone.

Second Term

For Undergraduates

232. **ROUTE SURVEYING.** Cr. 3. 6 lec. hrs. 9 lab. hrs. Mr. Schnerr.
233. **APPLIED MECHANICS. STATICS.** Cr. 3. 9 lec. hrs. Mr. Decker.
330. **STRUCTURES.** Cr. 3. 9 lec. hrs. Mr. Sanger.
332. **APPLIED MECHANICS. KINEMATICS AND KINETICS.** Cr. 3. 9 lec. hrs. Mr. Keho, Mr. Kiesling.
333. **APPLIED MECHANICS. STRENGTH OF MATERIALS.** Cr. 3. 9 lec. hrs. Mr. Aldridge, Mr. Keho, Mr. Schnerr.
435. **SIMPLE THEORY OF REINFORCED CONCRETE.** Cr. 3. 9 lec. hrs. Mr. Sanger.

Electrical Engineering

H. A. Spuhler, Head

First Term

For Undergraduates

211. **ELECTRICAL ENGINEERING LABORATORY.** Cr. 1. 9 lab. hrs. Mr. Grigsby.
231. **PRINCIPLES OF ELECTRICAL ENGINEERING.** Cr. 3. Mr. Grigsby.
318. **ELECTRIC AND MAGNETIC CIRCUITS LABORATORY.** Cr. 1. 9 lab. hrs. Mr. Meeks, Mr. Stenis.
338. **PRINCIPLES OF ELECTRIC AND MAGNETIC CIRCUITS.** Cr. 3. Mr. Meeks, Mr. Goodson, Mr. Stenis.
313. **TRANSIENTS LABORATORY.** Cr. 1. 9 lab. hrs. Mr. Easter.
321. **STATIC ELECTRIC AND MAGNETIC FIELDS.** Cr. 2. Mr. Grigsby.
333. **TRANSIENTS IN LINEAR SYSTEMS.** Cr. 3. Mr. Houston, Mr. Easter.
412. **ENGINEERING SEMINAR.** Cr. 1. 9 lab. hrs. Staff.
4312. **ALTERNATING CURRENT MACHINES.** Cr. 3. Mr. Houston, Mr. Craig.
4112. **ALTERNATING CURRENT MACHINES. LABORATORY.** Cr. 1. 9 lab. hrs. Mr. Craig, Mr. Meeks.

For Graduates

536. **ADVANCED NETWORK THEORY.** Cr. 3. Mr. Seacat.
5316. **ADVANCED ELECTROMAGNETIC THEORY.** Cr. 3. Mr. Spuhler.
630. **MASTER'S REPORT.** Cr. 3. Staff.
631. **MASTER'S THESIS.** Cr. 3. Staff.
632. **MASTER'S THESIS.** Cr. 3. Staff.

Second Term

For Undergraduates

212. **ELECTRICAL ENGINEERING LABORATORY.** Cr. 1. 9 lab. hrs. Mr. Grigsby.
232. **PRINCIPLES OF ELECTRICAL ENGINEERING.** Cr. 3. Mr. Grigsby.
319. **ELECTRICAL MACHINES LABORATORY.** Cr. 1. 9 lab. hrs. Mr. Meeks.
339. **PRINCIPLES OF ELECTRICAL MACHINES.** Cr. 3. Mr. Goodson.
3111. **FUNDAMENTALS OF ELECTRONICS LABORATORY.** Cr. 1. 9 lab. hrs. Mr. Stenis.
3311. **FUNDAMENTALS OF ELECTRONICS.** Cr. 3. Mr. Stenis, Mr. Meeks.

For Undergraduates and Graduates

317. **ELECTRONICS LABORATORY.** Cr. 1. 9 lab. hrs. Mr. Meeks, Mr. Grigsby.
337. **ELECTRONICS.** Cr. 3. Mr. Easter, Mr. Houston.
334. **TRANSMISSION LINES.** Cr. 3. Mr. Easter, Mr. Houston.
412. **ENGINEERING SEMINAR.** Cr. 1. 9 lab. hrs. Mr. Stenis.
4313. **ELECTRIC ENERGY CONVERSION.** Cr. 3. Mr. Seacat, Mr. Craig.
4113. **ALTERNATING CURRENT MACHINERY LABORATORY.** Cr. 1. 9 lab. hrs. Mr. Craig.

For Graduates

5317. **ADVANCED TRANSIENTS.** Cr. 3. Mr. Spuhler.
630. **MASTER'S REPORT.** Cr. 3. Staff.
631. **MASTER'S THESIS.** Cr. 3. Staff.
632. **MASTER'S THESIS.** Cr. 3. Staff.

Industrial Engineering and Engineering Drawing

R. A. Dudek, Head

First Term

INDUSTRIAL ENGINEERING

332. **INDUSTRIAL ORGANIZATION AND MANAGEMENT.** Cr. 3. Mr. Dudek.

436. **ENGINEERING ECONOMY.** Cr. 3. Mr. Dudek.

ENGINEERING DRAWING

131. **ENGINEERING DRAWING.** Cr. 3. 15 lab. hrs., 3 lec. hrs. Mr. Reeves.

Second Term

INDUSTRIAL ENGINEERING

330. **INDUSTRIAL RELATIONS AND WAGE POLICIES.** Cr. 3. Mr. Jenkins.

ENGINEERING DRAWING

132. **DESCRIPTIVE GEOMETRY.** Cr. 3. 15 lab. hrs., 3 lec. hrs. Mr. Power.

Mechanical Engineering

L. J. Powers, Head

First Term

For Undergraduates

237. **METALS ENGINEERING.** Cr. 3. Mr. Martin.
 320. **METALS FABRICATION.** Cr. 2. 18 lab. hrs. Mr. Martin.
 330. **ENGINEERING THERMODYNAMICS.** Cr. 3. Mr. Reis, Mr. Fung.
 338. **AIR CONDITIONING.** Cr. 3. Mr. Lawrence.
 3312. **MECHANICS OF MACHINERY.** Cr. 3. Mr. Powers.

For Undergraduates and Graduates

430. **MECHANICAL EQUIPMENT LABORATORY.** Cr. 3. 18 lab hrs. Mr. Lawrence, Mr. Reis.
 435. **FLUID DYNAMICS.** Cr. 3. Mr. Helmers.
 4212. **THERMODYNAMICS.** Cr. 2. Mr. Helmers.

For Graduates

5312. **MECHANICAL VIBRATIONS.** Cr. 3. Mr. Powers.
 630. **MASTER'S REPORT.** Cr. 3. Staff.

Second Term

321. **METALS FABRICATION.** Cr. 2. 18 lab. hrs. Mr. Martin.
 330. **ENGINEERING THERMODYNAMICS.** Cr. 3. Mr. Edmondson.
 333. **COMBUSTION ENGINES.** Cr. 3. Mr. Martin, Mr. Fung, Mr. Lawrence.
 2313. **DYNAMICS.** Cr. 3. Mr. Powers.

For Undergraduates and Graduates

431. **MECHANICAL EQUIPMENT LABORATORY.** Cr. 3. 18 lab. hrs. Mr. Lawrence, Mr. Edmondson.
 4213. **THERMODYNAMICS.** Cr. 2. Mr. Fung.
 4315. **HEAT AND MASS TRANSFER.** Cr. 3. Mr. Helmers.

Second Term

For Graduates

533. **HEAT TRANSMISSION.** Cr. 3. Mr. Helmers.
 630. **MASTER'S REPORT.** Cr. 3. Staff.

Petroleum Engineering

W. L. Ducker, Head

First Term

For Undergraduates and Graduates

412. **ENGINEERING SEMINAR.** Cr. 1. Mr. Ducker.
 420. **SPECIAL PETROLEUM ENGINEERING PROBLEMS.** Cr. 2. Mr. Ducker.

Second Term

For Undergraduates and Graduates

412. **ENGINEERING SEMINAR.** Cr. 1. Mr. Johnson.
 420. **SPECIAL PETROLEUM ENGINEERING PROBLEMS.** Cr. 2. Mr. Johnson.

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 bulletin.

Applied Arts

Bill Lockhart, Head

First Term

For Undergraduates

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

For Undergraduates and Graduates

421. **SPECIAL PROBLEMS.** Cr. 2. Mrs. Bettler.
439. **EXPERIENCE TRAINING IN APPLIED ARTS.** Cr. 3. Mrs. Bettler.

For Graduates

531. **SPECIAL PROBLEMS: NEW DIRECTIONS IN APPLIED ARTS.** Cr. 3. (July 5-22) Miss Paolucci and Mrs. Bettler.
5335. **THEORY AND PRACTICE OF ART FOR ELEMENTARY TEACHERS.** Cr. 3. Mr. Lockhart.

Second Term

For Undergraduates

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

For Undergraduates and Graduates

439. **EXPERIENCE TRAINING IN APPLIED ARTS.** Cr. 3. Staff.

For Graduates

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

Clothing and Textiles

Gene Shelden, Head

First Term

For Undergraduates and Graduates

411. **SPECIAL PROBLEMS.** Cr. 1. (July 11-15) Miss Paolucci and Miss Shelden.

For Graduates

514. **APPLICATION OF NEW CONCEPTS IN CLOTHING AND TEXTILES.** Cr. 1. (July 5-10) Miss Paolucci and Miss Shelden.
531. **SPECIAL PROBLEMS IN CLOTHING AND TEXTILES.** Cr. 3. (July 5-22) Miss Paolucci and Miss Shelden.
630. **MASTER'S REPORT.** Cr. 3. Miss Shelden.
631. **MASTER'S THESIS.** Cr. 3. Miss Shelden.

Second Term

For Graduates

5335. **TEXTILE TRENDS AND RESOURCES FOR ELEMENTARY TEACHERS.** Cr. 3. Miss Shelden.
632. **MASTER'S THESIS.** Cr. 3. Miss Shelden.

Food and Nutrition

Mina Lamb, Head

First Term

For Undergraduates

111. **SCHOOL LUNCH WORKSHOP.** Cr. 1. (June 12-16) Miss Tinsley.
135. **FOOD SELECTION AND PREPARATION (For Nurses).** Cr. 3. Mrs. Martin.

For Undergraduates and Graduates

411. **NUTRITION AND THE SCHOOL LUNCH.** Cr. 1. (June 12-16). Miss Tinsley.

For Graduates

515. **SPECIAL ASPECTS — NEW DIRECTIONS IN FOOD AND NUTRITION.** Cr. 1 each. (July 5-10; July 11-15) Miss Paolucci and Mrs. Lamb.
533. **READINGS — NEW DIRECTIONS IN FOOD AND NUTRITION.** Cr. 3. (July 5-22) Miss Paolucci and Mrs. Lamb.
631. **MASTER'S THESIS.** Cr. 3. Mrs. Lamb.

Second Term

For Graduates

632. **MASTER'S THESIS.** Cr. 3. Miss Tinsley.

Home Economics Education

Vivian Adams, Head

First Term

For Undergraduates

331. **METHODS OF TEACHING HOME ECONOMICS.** Cr. 3. Mrs. Adams.

For Graduates

- 514-A, B. **SPECIFIC PROBLEMS IN TEACHING HOME ECONOMICS.** Cr. 1 each. (July 5-10; July 11-15) Miss Paolucci, Mrs. Adams and Staff.
536. **PROBLEMS.** Cr. 3. (July 5-22) Miss Paolucci, Miss Nesbitt and Staff.
- 631-632. **MASTER'S THESIS.** Cr. 6. Mrs. Adams.

Second Term

For Undergraduates

332. **ADVANCED METHODS OF TEACHING HOME ECONOMICS.** Cr. 3. Miss Nesbitt.
532. **CURRICULUM DEVELOPMENT IN HOME ECONOMICS.** Cr. 3. (Aug. 7-24) Miss Nesbitt.
- 631-632. **MASTER'S THESIS.** Cr. 6.

Home and Family Life

Elmer Knowles, Head

First Term

CHILD DEVELOPMENT AND FAMILY RELATIONS

For Undergraduates

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

HOME MANAGEMENT

For Undergraduates

431. **HOUSING THE FAMILY.** Cr. 3. Miss Drew.

For Undergraduates and Graduates

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

Second Term

CHILD REVELOPMENT AND FAMILY RELATIONS

For Undergraduates

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

For Undergraduates and Graduates

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

HOME MANAGEMENT

For Undergraduates and Graduates

432. **HOME MANAGEMENT RESIDENCE.** Cr. 3. Miss Wood.

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