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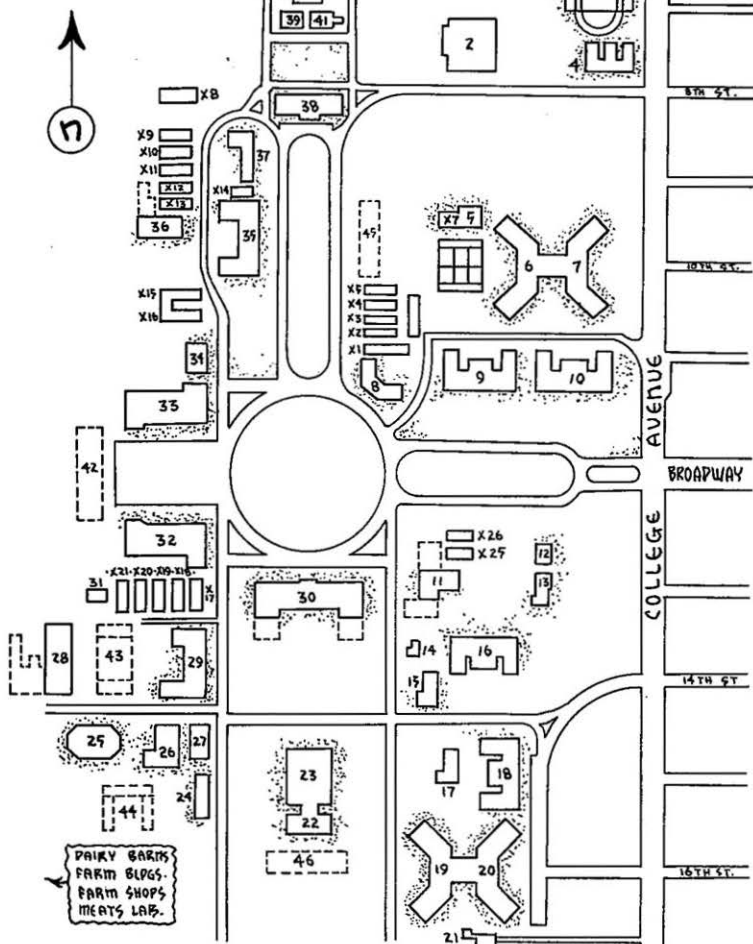
**SUMMER SESSION  
1951**



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# MAP OF THE CAMPUS TEXAS TECH LUBBOCK, TEXAS



## LEGEND

Ad. Bldg. ....	30	Elec. Engr. Lab. ....	X14	Nursery .....	14
Ad. Bldg. ....	29	Engr. Bldg. ....	35	Pet. Engr. Bldg. ....	36
Ag. Engr. Shop .....	28	Engr. Bldg. (New) .....	45	Power Plant .....	39
Ag. Engr. (New) .....	43	Extension Bldg. ....	27	Practice Stadium .....	3
Air and Military .....		Greenhouse .....	31	President's Home .....	21
Science Bldgs. 37, X9, X10		Greenhouses (New) .....	44	Press Bldg. ....	34
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Cafeteria .....	22	Home Management House. 13		Sneed Hall .....	10
Casa Linda .....	12	Infirmary .....	X16	Speech Bldg. ....	26
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## CALENDAR SUMMER SESSION 1951

### First Term

- June 3. Sunday. Dormitories open for room occupancy at 12 noon.  
June 4. Monday. Summer Session begins. Registration for first term. Breakfast served as first meal in dormitories.  
June 5. Tuesday. Classes begin 7:40 A.M.  
June 7. Thursday. Last day to register for first term. Last day to add a course for the first term.  
June 13. Wednesday. Last day in which student may drop a course without grade penalty.  
July 4. Wednesday. American Independence Day, a holiday.  
July 5. Thursday. Classes resume, 7:40 A.M.  
July 12-13. Thursday and Friday. Final examinations for first term.  
July 13. Friday. First term ends.

### Second Term

- July 16. Monday. Registration for second term.  
July 17. Tuesday. Classes begin 7:40 A.M.  
July 19. Thursday. Last day to register for second term. Last day to add a course for second term.  
July 25. Wednesday. Last day for a student to drop a course without grade penalty.  
Aug. 10. Friday. Last day for instructors to file with Registrar correspondence course grades for candidates for graduation on August 24. Students should complete final examinations in time to be mailed to instructor by August 1.  
Aug. 18. Saturday. Last day for submitting completed copies of masters' theses.  
Aug. 22-23. Wednesday and Thursday. Final examinations for second term.  
Aug. 24. Friday. Meeting of Divisional Faculties to approve candidates for degrees, 8 A.M.  
Aug. 24. Friday. Second term ends. Summer Session closes. Commencement, 7:15 P.M.

## ORGANIZATION OF THE COLLEGE

### Divisions and Departments

#### Agriculture

Agricultural Economics  
 Agricultural Education  
 Animal Husbandry  
 Dairy Manufactures  
 Plant Industry (Agricultural  
 Engineering, Agronomy,  
 Horticulture)

#### Arts and Sciences

Biology (Bacteriology, Bot-  
 any, Zoology)  
 Chemistry  
 Economics  
 Education  
 English  
 Foreign Languages, (French,  
 German, Greek, Latin, Por-  
 tuguese, Spanish)  
 Geology (Geography)  
 Government  
 History and Anthropology  
 Journalism  
 Mathematics (Astronomy)  
 Music and Band  
 Philosophy and Sociology  
 Physical and Health Educa-  
 tion  
 Physics  
 Psychology  
 Pre-professional courses in  
 Medicine, Dentistry,  
 Pharmacy, Law  
 Speech  
 Also courses in Biblical Litera-  
 ture

#### Business Administration

Accounting and Finance  
 Economics  
 Business Education and Sec-  
 retarial Administration  
 Management  
 Marketing

#### Engineering

Architecture and Allied Arts  
 Chemical Engineering  
 Civil Engineering  
 Electrical Engineering  
 Engineering Orientation  
 Industrial Engineering and  
 Engineering Drawing  
 Mechanical Engineering  
 Petroleum Engineering  
 Textile Engineering

#### Home Economics

Applied Arts  
 Child Development and Fami-  
 ly Relations  
 Clothing and Textiles  
 Foods and Nutrition  
 Home Economics Education  
 Home Management  
 Institutional Management

#### Graduate

(Degrees Offered)  
 Master of Arts  
 Master of Business Adminis-  
 tration  
 Master of Education  
 Professional Degrees in Engi-  
 neering  
 Master of Science  
 Master of Science in Home  
 Economics  
 Doctor of Education  
 Doctor of Philosophy

#### Military Science and Tactics (ROTC)

Basic and Advanced  
 Air Force  
 Engineering  
 Infantry  
 Signal Corps

#### Extension

Correspondence Courses  
 Extension Classes  
 Lectures  
 Motion Pictures

## BOARD OF DIRECTORS

1951-52

## OFFICERS

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 Chanslor E. Weymouth, *Vice Chairman*  
 W. T. Gaston, *Secretary*

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Term Expires 1953

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CHANSLOR E. WEYMOUTH.....	Amarillo
CHARLES W. WOOLDRIDGE.....	Dallas

Term Expires 1955

C. T. McLAUGHLIN.....	Snyder
RAYMOND PFLUGER.....	Eden
ROBERT B. PRICE.....	El Paso

Term Expires 1957

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GEORGE E. BENSON.....	Lubbock
CHARLES C. THOMPSON.....	Colorado City

## STANDING COMMITTEES

Building: Weymouth, Ince, Price.  
 Executive: Benson, Abbott, Pfluger, Wooldridge.  
 Finance: Price, Benson, McLaughlin.  
 Legislative: McLaughlin, Abbott, Benson, Ince.  
 Local Affairs: Ince, Abbott, Benson.

## SPECIAL COMMITTEES

Agriculture: Pfluger, Price, Weymouth.  
 Textiles: Wooldridge, Benson, Ince, Pfluger.  
 Minerals: Weymouth, Abbott, McLaughlin,

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Office, 217 Administration Building
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Office, 217 Administration Building
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Office, 209 Administration Building
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Office, 112 Administration Building
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Office, 102 Administration Building
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Office, 101 Museum Building
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Office, 211 Administration Building
- ZOE HARRIS, B.S., M.A., Director of Food Service  
Office, Dormitory Administration Building
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Office, 219 Administration Building
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Office, 202 Engineering Building
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Office, 215 Library
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Office, 106 Extension Building
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Office, 201A Agriculture Building
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Office, 319 Administration Building
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Office, 104 Home Economics Building
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## Tactics

Office, 1 Military Science Building

WILLARD WHITE, B.S., Colonel, U.S. Army, Professor of Military Science and Tactics

Office, 1 Military Science Building



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Office, 112 Administration Building

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Office, 201A Agriculture Building

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Office, 319 Administration Building

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Office, 110 Administration Building

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Office, Library

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Dean of Agriculture and Director of Farms.

RUSSELL JACK STEFFY, B.M.E., Assistant Professor of Physics.

TOM BASIL STENIS, B.S. E.E., M.S. E.E., Assistant Professor of Elec-  
trical Engineering.

ALFRED BELL STREHLI, B.A., B.S., M.A., Assistant Professor of Span-  
ish.

ALAN LANG STROUT, B.A., M.A., Ph.D., Professor of English.

MARGARET RUSSELL STUART, B.A., M.A., Instructor in Chemistry.

RICHARD ARTHUR STUDHALTER, B.A., M.A., Ph.D., Professor of  
Botany.

ARCHIE WILLIAM SULLIVAN, B.S., M.S., Assistant Professor of Agri-  
cultural Engineering.

GUSSIE LEE TEAGUE, B.A., M.A., Associate Professor of English.

MILTON ELDON THOMPSON, B.S., M.Ed., Instructor in Education.

RICHARD KRAUSE TRACY, B.F.A., Instructor in Architecture.

AGNES ANN TRUE, B.A., M.A., Ph.D., Associate Professor of Psychol-  
ogy.

SCOTTI MAE TUCKER, B.A., M.A., Instructor in Spanish.

KIRK B. TURNER, B.S., M.S., Assistant Professor of Animal Husbandry.

RALPH SYLVESTER UNDERWOOD, B.A., M.A., Ph.D., Professor of  
Mathematics.

ERNEST WALLACE, B.S., M.A., Ph.D., Professor of History and Assist-  
ant Dean of Arts and Sciences.

GEORGE FREDERICK WARN, A.B., M.S., Assistant Professor of Geology.

RICHARD CLAUDE WEART, B.A., M.S., Ph.D., Assistant Professor of Geology.

MARGARET WATSON WEEKS, B.S., M.S., Dean of Home Economics.

JOHN WOOLMAN WHARTON, A.B., LL.B., Assistant Professor of Business Law.

GEORGE ARTHUR WHETSTONE, B.S., M.S., Ph.D., Associate Professor of Civil Engineering.

HAROLD NORTON WHITE, B.A., M.A., Assistant Professor of English.

DEWEY O. WILEY, B.Mus., D.Mus., Professor and Director of Bands.

JUDDIE JOHNSON WILLINGHAM, B.S., M.S., Ph.D., Professor and Head of Dairy Manufactures.

RUTH DONALD WILSON, B.A., M.A., Instructor in English.

FLOYD LEWIS WILLIAMS, B.S. M.E., M.S. M.E., Associate Professor of Mechanical Engineering.

HORACE EUGENE WOODWARD, JR., B.A., M.A., Assistant Professor of Mathematics.

GEORGIA ELLEN WRIGHT, B.S., M.S., Assistant Professor of Clothing and Textiles.

WARREN WATSON YOCUM, B.S., M.A., Ph.D., Professor of Horticulture.

ARTHUR WESLEY YOUNG, B.S., M.S., Ph.D., Professor of Agronomy and Head Department of Plant Industry.

## GENERAL INFORMATION

### Location

Lubbock, "The Hub of the Plains," is the home of Texas Technological College. This city of some 72,000 persons is located in the heart of the South Plains, some 200 miles from the northern Texas state line in the Panhandle and 400 miles northwest of the state capitol at Austin.

Lubbock is a growing, progressive city noted for its excellent churches, public schools, hotels and shopping district. One interstate bus line, two railroads, three air lines, and several excellent highways connect Lubbock with other points of interest in Texas and the nation.

### History

Texas Technological College, a state supported coeducational college, was established by an act of the Thirty-Eighth Legislature of the State of Texas in 1923. The first buildings were opened to students on September 30, 1925.

The present president of Texas Tech, Dr. D. M. Wiggins, was inaugurated in 1948. A nine-member Board of Directors is appointed by the Governor of Texas for six-year terms.

During the 1950-51 fall semester, some 5,500 persons were enrolled in the college.

The college is completing the celebration of its Silver Anniversary. Another 25 years of fruitful and progressive service is being planned.

### Campus

The college is located at the western edge of Lubbock and covers an area of 2,000 acres. Three hundred acres are covered by the main campus, while the remainder is devoted to research and experimentation in the Division of Agriculture.

Permanent buildings have been designed in the Spanish Renaissance motif. They include an Administration Building, as well as structures for Agriculture, Home Economics, Journalism, Library, Chemistry, Engineering, Textile Engineering, Utilities and the Museum. Completion is being rushed on \$4,500,000 in other permanent structures.

Other campus buildings include the Gymnasium, Stock Judging Pavilion, Bookstore, eight dormitories, Extension, Home Management House, Petroleum Engineering, Speech, Jones Stadium (capacity 16,500), Power Plant and a number of temporary buildings.

## THE SUMMER SESSION

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

The 1951 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 rather than waiting for the fall semester. All required courses for freshmen in the various departments are offered, and the importance of obtaining the maximum amount of education before being called by the military cannot be over-emphasized. High school graduates who plan to study engineering are encouraged to attend summer school to remove conditions in entrance units (see Admission to the Division of Engineering with Conditions). Entrance conditions not removed in summer school will delay the student's ultimate graduation.
2. *Students of the Regular Session.* Students of the long session will find the summer school profitable for making up courses or speeding up their education.
3. *Teachers in the Public Schools.* The shortage of teachers in the elementary schools has caused many persons to enter or re-enter the profession to help in the emergency. Many have felt the need for further education to continue teaching. The summer school offers opportunity to meet those needs, both at the undergraduate and graduate levels.
4. *Graduate Students.* Full graduate work will be offered in the summer session leading to the Degrees of Master of Arts, Master of Science, and Master of Education. A special bulletin on graduate studies is available and will be mailed on request.

### Admission

Admission policies of the long session apply to the summer school. Because of qualitative admission requirements, all new students must present transcripts of former records as a basis for admission.

*Admission by High School Certificate.* The first requirement for admission into Texas Technological College is graduation from an accredited high school with a minimum of 15 units of work. No credit may be obtained without graduation. The following units are the uniform requirements for admission to any division of the college:

1. English	3
2. Mathematics	2
Algebra, Geometry, Trigonometry	
3. Two units each from any two of the following groups:	4
Laboratory Sciences	
Social Sciences	
Foreign Languages	
Vocational Home Economics, or Vocational Agriculture	
4. Electives	6
Total	15

*Admission by High School Certificate with Condition.* The study of engineering requires a thorough background of high school preparation in mathematics and physics. A prospective engineering student is strongly urged to present three units of mathematics, not including general mathematics or arithmetic. Likewise he should present at least two units in science, one of which should be physics. The student lacking one unit in algebra, geometry, or physics is strongly urged to attend summer school to remove this deficiency rather than wait for the fall semester. However, opportunity will be offered for the removal of such deficiencies in the first semester of the long session, but this may delay the student's ultimate graduation. The student deficient in high school physics may remove this condition by satisfactory completion of freshman college physics (Physics 131-2).

*Admission from Other Colleges and Universities.* Undergraduate students who have attended another college, who have the usual honorable dismissal, may be admitted on presentation of an official transcript which will meet the following admission requirements in each of the last two semesters of attendance or on the total attendance if less than two semesters. Grade points are computed as follows: for each hour of A-3; B-2; C-1; D, E, and F-none.

A student taking 12 or more semester hours must, if a first year student, pass in at least 9 semester hours and make 3 or more grade points; if a second year student, at least 9 semester hours

with 6 or more grade points. A third year student, or above, taking 12 or more semester hours must pass in a minimum of 12 semester hours with at least 12 grade points.

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

*Admission to the Graduate Division.* Applicant with a Bachelor's Degree from a recognized college or university may be admitted to the Graduate Division on the basis of a complete transcript of the previous record. Application for admission should be filed with the Registrar. For complete information regarding candidacy for graduate degrees, see the bulletin of the Division of Graduate Studies.

## 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 dean. No refund will be made for courses dropped. All checks, money orders, and drafts are accepted subject to final collection.

*Registration Fee for Resident Students.* For legal resident students of the State of Texas, registration fee for a six-week term is \$17.50. For resident students who enroll for less than 4 semester hours in any six-week term, the registration fee is \$12.50 per term.

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

A non-resident student is defined on pages 36 and 37 in the General Catalog, 1950-51.

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

*Student Health and Activity Fee.* Pursuant to an act of the Texas Legislature, each student is required to pay a student health and activity fee of \$5 per six-week term of the summer session. This fee covers recreational activities, health and infirmary service, and student publications.

*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 \$1 is charged for each semester. For courses in which the semester credit is

4 semester hours or more, the laboratory fee is \$2 per semester. A laboratory fee of \$2 is charged for each freshman student participating in the early registration counseling and testing program to cover laboratory materials and supplies.

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

*Graduation Fee.* Graduating students will be charged a graduation fee of \$5.

*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 Report Fee in Education 5311—Research Problems.* The research reports prepared in this course are compiled in a lithographed volume following the conclusion of the course. Each student desiring to do so may have his report included by a payment of \$10.

#### Miscellaneous Fees

Ceramics Fee for Arch. 239, 2310, 3216, 3217, 4311, 4312	\$5
Course Fee for Physical Education for Men 012, 013, 014, 0111, 3206	\$10
Course Fee for Physical Education for Men 012, 013, 014.	
Course Fee for Education 3315	\$3
Testing Fee for Management 110	\$4

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

*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, health and activity 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 10 days after the student terminates his residence here as a student.

In no case will fees be refunded to a student suspended from college by college authorities.

## Summary of Expenses For Six-Week Term:

### Fees, Books and Supplies

Registration Fee (legal resident of Texas) .....	\$17.50
General Property Deposit (refundable) .....	7.00
Student Health and Activity Fee .....	5.00
Laboratory Fees (approximate average) .....	3.00
Books and Supplies (approximate average) .....	15.00
<hr/>	
<i>Total for six-week term</i> .....	\$47.50
Board and Room in College Dormitory .....	90.00
<hr/>	
<i>Estimated grand total for six-week term</i> .....	\$137.50

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

### Music Fees for Class and Private Instruction

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

For each one of the following courses in applied music:

*Class Instruction* Course Fee Music 117, 118, 123, 217, 218 \$4

#### *Private Instruction*

Music 115, 116, 215, 216 \$9

Music 125, 126, 225, 226,  
325, 326, 425, 426 \$18

Practice room and piano rental payable at the Business Office:

One hour per day per six-week term \$4

Each additional hour \$2

## Division of Agriculture

The summer session for the Division of Agriculture will include undergraduate courses in agricultural economics, agricultural engineering, agronomy, animal husbandry, dairy husbandry, dairy manufactures, horticulture, and poultry husbandry.

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

In arranging the course of study for graduate students, special consideration is given to county agents, teachers of vocational agriculture, and instructors in the Veterans' Training Program in agriculture.

## Division of Arts and Sciences

The course offerings of the departments within the Division of Arts and Sciences have been selected with a two-fold 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. As usual, the needs of teachers assume a paramount position. A revision of the professional education curriculum has been accomplished and goes into effect at the beginning of the 1951 summer session. New numbers have been assigned the education courses and the educational psychology courses. Tables of equivalents of course numbers for those courses previously offered show how these courses relate to the new courses as listed in this summer bulletin. Among the reasons for the revision of the professional education curriculum were: (1) to align more closely with the developing plan for certification endorsement in the State of Texas; and, (2) to provide a more nearly continuous core curriculum for professional education from the freshman year through the doctoral degrees.

## Division of Business Administration

The 1951 summer session makes available courses in all departments

in the Division of Business Administration. Programs of study are offered for students at all levels from freshman to 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 1951 summer session provides the initial offerings in the graduate program for business teachers leading to the Master of Business Administration Degree with a major in business education.

## Division of Engineering

The Division of Engineering will offer sophomore and upper level work in architecture, chemical, civil, electrical, industrial, mechanical, and petroleum engineering, as well as freshman and sophomore work in engineering drawing. The courses offered are based on the needs shown by a survey at the beginning of the spring semester of all students in residence in the spring semester.

All the work of the freshman year in the Division of Engineering will be available if the demand for these courses is sufficient. Entering freshmen will devote their time to first semester courses. Any high school graduate who desires to study engineering, but who is deficient in high school algebra, plane geometry, or physics could, with profit, attend the summer session in order to remove these deficiencies.

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

Any freshman who has attended during the 1950-51 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, thus becoming a regular sophomore next fall.

In the Department of Architecture, courses for art teachers will be offered as shown in the list of courses for that department.

## Division of Home Economics

The Division of Home Economics offers work during the summer session for freshman, sophomore, junior, senior, and graduate students. Students who wish to complete degree requirements in less than four years may do so by attending summer school. Those now in college may sup-

plement their programs, and entering students will find a schedule of work offered during both terms of summer school.

*Graduate Courses* are given special attention and will be offered in both terms of the summer session. Some of these courses are regular six-week courses; others are intensive courses of three-week duration. In arranging the graduate program, the needs of home demonstration agents, high school teachers of homemaking, as well as students regularly working toward a graduate degree have been considered.

During the first term, *Dr. Bernice Moore*, Consultant, Homemaking Division, State Board for Vocational Education, and the Hogg Foundation for Mental Hygiene, will assist with graduate courses in home economics and with the family relations course. She will be at the college June 11 to June 16 and will be available for lectures, conferences, and discussion periods.

In the second term a special three-week course in Household Equipment will be offered. In connection with this course there will be visiting professional demonstrators from some of the leading manufacturers of equipment. The course will consist of lecture demonstrations and laboratory experience making use of the latest equipment, visual aids and field trips. This course is of interest, not only to teachers and home demonstration agents, but to persons wishing to prepare themselves for positions as home service advisers with utility companies or as home economists with the REA.

Graduate work will also be offered in foods and nutrition and clothing and textiles. For teachers of homemaking and others desiring work in crafts, there will be a special crafts course.

### Division of Graduate Studies

Texas Technological College is a member of the regional organization known as the Conference of Deans of Southern Graduate Schools and adheres to the standards established by that organization in regard to the preparation of the faculty and the requirements for degrees.

Many of the offerings of the summer session have been selected with special regard to the needs of public school teachers. A wide variety of courses is available in the various subject matter fields as well as in professional education.

Regulations concerning all aspects of graduate work are set forth in the Graduate Bulletin, a copy of which may be secured from the Registrar. Application for admission to the Division of Graduate Studies should be made well in advance of registration. The Registrar is Director of Admissions, and all correspondence regarding admission should be addressed to him.

## Division of Extension

Approximately 270 college courses, including both credit and non-credit courses, are offered by correspondence and extension class work for those who are unable to secure classes in residence. Credit courses may count on degrees and teachers' certificates. A list of available courses may be secured upon request.

Approximately 800 16mm sound or silent educational motion picture films are available for the use of colleges, public schools, county agents, clubs, churches, and other organizations at reasonable rates. A classified descriptive bulletin listing these films will be sent on request.

## Division of Military Science and Tactics

A senior division of the Reserve Officers Training Corps is in operation at Texas Technological College. At present, no summer school work is offered in military science.

A representative will be on duty in the Military Science Division throughout the summer to interview prospective students and to take care of administrative matters.

This division offers four years of training leading to a commission as a Second Lieutenant in the Air Force Reserve or the U.S. Army Reserve. Eligible to receive this commission are those students who satisfactorily complete the four-year ROTC program and meet the requirements for the Bachelor's Degree.

High school graduates who meet the physical and mental requirements may enter the ROTC at the time of their initial enrollment if they anticipate completing four full years of college work.

First term freshman students may enroll in the ROTC at the beginning of either semester of the long session.

Transfer students also may enroll in ROTC provided they have had previous ROTC training. For example, a sophomore transfer who has had one year of ROTC, may enroll in the program since he has three years of college work remaining.

Full academic credit, applicable toward graduation, is allowed for all ROTC courses.

Students enrolling in the ROTC will be furnished a uniform and all manuals at no cost to the cadet.

For further information write the Professor of Air Science and Tactics, or the Professor of Military Science and Tactics, Texas Technological College, Lubbock, Texas.

## Undergraduate Degrees

The following undergraduate degrees are available: Bachelor of Arts,

Bachelor of Business Administration, Bachelor of Science with certain majors in business administration, Bachelor of Science in Agriculture with majors in the various departments, Bachelor of Science in the various fields of engineering, and Bachelor of Science in the various departments of home economics, Bachelor of Architecture, Bachelor of Commercial Art, Bachelor of Science in various sciences, and Bachelor of Science in Education. Although all these degrees are standard, the number of semester hours required varies according to the curriculum followed.

## Graduate Degrees

The following degrees are offered: Master of Arts, Master of Business Administration, Master of Education, Master of Science, Doctor of Education, and Doctor of Philosophy.

Major work for a Master's degree is available in the following departments: Accounting and Finance, Agricultural Economics, Agricultural Education, Animal Husbandry, Biology, Business Education and Secretarial Administration, Chemistry and Chemical Engineering, Clothing and Textiles, Dairy Manufactures, Economics, Education and Philosophy, Electrical Engineering, English, Foods and Nutrition, Foreign Languages, General Home Economics, Geology, Government, History (Anthropology and Sociology), Home Economics Education, Management, Marketing, Mathematics, Physics, Plant Industry, Psychology, and Speech. Minor work is offered by several departments in addition to those named.

The degree of Doctor of Education is offered for advanced work in professional education.

Major work for the degree of Doctor of Philosophy is offered in American Civilization, Chemistry, Education, English, Geology, and History.

## Class Work and Routine

*Student Load.* The normal load for a six-week term is 6 semester hours. A student will not be permitted to register for, or secure credit in, more than 14 semester hours in the two terms, including any correspondence work. Students who have not done work previously in Texas Technological College will regularly enroll for a maximum of 6 semester hours, exclusive of 1-hour physical education courses and 1-hour credit in orientation. Graduate students are limited to 6 hours in either term or a total of 12 hours for the summer session. A senior of superior ability and performance may, with the approval of his 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. Three of these 15 semester hours may be taken by correspondence, provided registration for same is done at the beginning of the summer session. Not

more than 8 semester hours may be taken in residence during any one term.

*Auditing Classes.* A general provision has been made in the college whereby students may audit classes during the long session by paying a certain fee. This does not apply in the summer session. Persons eligible to enroll for classes may have the privilege of enrolling regularly upon the payment of the regular summer school fee.

*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.

## Housing Facilities

The cost of regular room and board in the college dormitories, two per room, will be \$90 per term of six weeks, payable in advance. Corner rooms will be \$92.50 for six weeks. There are a few single rooms with bath which may be had at a cost, including board, of \$101.25 for six weeks. Room and meals in the dormitories will be available for married

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

Casa Linda, the college cooperative house for women, will be open during the first term of the 1951 summer session, provided there is sufficient demand.

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

## Special Scholarships

The Texas Society for Crippled Children will offer five summer scholarships for special study in the education of exceptional children. For further information, write Dr. P. Merville Larson, Speech Department, Texas Technological College.

## School Administrators' Conference

The eighth annual School Administrators' Conference will be held on the Texas Tech campus for public school superintendents, principals and supervisors during the sixth week of the first summer term. The conference is sponsored jointly by Texas Tech, the Lubbock public schools, couples without children,

and the West Texas Association of School Administrators.

Dr. Clyde M. Hill, Head of the Department of Education of the Graduate School of Yale University, will be featured as principal speaker. The conference also will be highlighted by a series of clinics in special problems of school administrators.

## Recreation and Health Service

As has been its policy in the past, Texas Technological College has provided a recreation program adequate to the needs of those who are enrolled for courses for the summer session during 1951. For the summer session the Recreation Committee has planned a well-balanced combination of musical numbers, motion pictures, and dances. The objective of this program is to provide adequate and wholesome diversion for enrolled students and the wives and children of married students, with the hope that our summer school will be both constructive and recreational. The complete recreation program is open to all summer school students on the basis of the payment of the activity fee.

Both for organizations and for individuals, facilities for swimming, golf, tennis, and picnics are available either at Mackenzie State Park or Buffalo Lakes.

The activity fee also covers the health service for students enrolled in summer school. The college infirmary, a 20-bed unit, provides an accommodation for those regularly enrolled students ill enough to require constant supervision, and not in such physical condition as to require surgery or the services of specialists. Students judged to be in need of infirmary care by the college physician may be admitted to the infirmary where they are under the constant supervision of the physician and a registered nurse. Neither the out-patient clinic nor the infirmary is financially able to give students unlimited medical service. The cost of special expensive medications, examinations, treatments, special X-ray examinations, and special laboratory tests must be paid by the student. Except for the above services, no charge is made for infirmary care up to a maximum of three and one-half days each six-week term; a minimum fee to cover the cost of food, drugs, supplies, and any special services is charged the student for each additional day in the infirmary. In case the infirmary is filled to capacity, the college is not under obligation to provide students with hospital service elsewhere.

The dispensary 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, danger of transmission has passed.

## Field Study Course in Mexico City

A group study course, Spanish 4310-11, is offered in alternate years in Mexico City during the second term of the summer session. The main purpose of the course is to give to students and teachers of Spanish and to those going into foreign service some experience in international living and a better grasp of the language and civilization of Spanish America. *THIS COURSE WILL BE OFFERED IN THE SUMMER OF 1952.*

## Summer Band School

Texas Technological College has maintained a large Summer Band School since the summer of 1934. This feature runs concurrently with the first summer session of the college.

A wide range of courses is offered during this period. A large staff of instructors augments the regular college staff in making these offerings possible. Dr. A. A. Harding from the University of Illinois will again be a guest conductor and instructor.

Three or more bands will be open to accommodate students at various levels of advancement. Special instructors on all wind instruments will have charge of this phase of instruction. Percussion and baton twirling instructors will be available to those interested and pre-college theory and arranging classes will be available to all pre-college students.

For college students, the courses range from freshman to graduate level.

For a folder giving detailed information, address: Director, Summer Band School, Texas Technological College, Lubbock, Texas.

## Cotton Classing Short Course

The annual Cotton Classing short course of two weeks duration will be offered June 18 through June 29. This course is designed for ginners, cotton buyers, and others interested in grading and stapling cotton. It does not carry college credit, and carries no entrance requirements other than a specific interest in the subject matter. It is given in cooperation with the USDA local classing office.

## Special Lecturers

Dr. Bernice Moore will be on the campus June 11-16 as consultant, and to assist in teaching Family Relations 433 and Home Economics Education 536.

Three hours graduate credit in home economics will be given for both courses, and 3 semester hours graduate credit in sociology will be given for family relations. This course is open to advanced and graduate students in all divisions.

## The Library

The Library of Texas Technological College consisting of 82,766 cataloged volumes, 17,751 periodicals, and 247,647 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 an area devoted to the use of periodicals and documents. Individual study space is available for graduate students engaged in research. The library also provides readers for microfilm and microcard publications.

The library staff is made up of 11 professionally trained librarians and 14 sub-professionals, providing service all hours the library is open.

## SPECIAL COLLECTIONS

A small, but growing collection of carefully selected material is available on open shelves for recreational reading.

In March 1948, the English Department established a fund for a library in memory of Lucile Gill, for many years a member of the English faculty. The scope of the plan was enlarged to admit contributions from students, former students, faculty members and friends. Miss Gill's family donated her personal library, consisting of 400 discriminatingly chosen books. The collection is a part of the library and administered by the library staff. The room chosen for it is on the first floor of the library.

The Southwest Collection, which is housed in a separate room on the second floor, was established for the acquisition and preservation of materials of particular interest in this region. It includes documents and manuscripts, cataloged volumes, many not obtainable in other Texas libraries, and a large collection of early Texas newspapers on microfilm, a gift of Lewis W. McNaughton of Dallas, Texas. The archive material includes a group of papers connected with the estate of James Bowie, given to the library by the late Sen. Arthur P. Duggan of Littlefield, Texas; a collection of records of the Matador Land and Cattle Company, a gift of Maurice Reilly; and a collection of records of the Spur Ranch, given by President Emeritus Clifford B. Jones. With the aid of several residents of Spur, a file of the *TEXAS SPUR* from 1909-40 has been secured for the collection.

The library offers its services to the students and faculty of the college, to the citizens of the State of Texas, and to other friends of the college.

Hours of service: 8 A.M. to 10 P.M., Monday through Friday; 8 A. M. to 5 P. M. Saturday. Closed Sundays and 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 Placement Service

The College offers the facilities of The Placement Service to its students and graduates and to those desiring to employ them. Graduates and former students are urged to take advantage of these facilities. Candidates for degrees are expected to complete personnel sheets for filing with The Placement Service prior to graduation.

Employers, representing the public schools, business, and industry, should file requests for personnel with the Placement Office. All correspondence relative to full-time employment of students and graduates should be addressed to that office.

Further details and coverage offered may be received from the Executive Secretary.

## The College Bookstore

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

## Summer Session in Local Schools

The summer session of the Lubbock public schools will begin May 30 and continue through July 24.

In grades one through eight, work in the fundamental subjects will be offered for review only. Credit work—not more than two half-units per student—will be offered at grades nine through 12. Courses in social studies, English, and mathematics, and some electives, may be taken.

Tuition will vary according to grade level and will be announced later. Any further information may be obtained by writing Office of the Supervisors, Senior High School Building, Lubbock, Texas.

## 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 Friday, August 24, at 7:15 P.M.

## Admission to Candidacy for Graduation

Any student who enters the semester or summer session at the end of which all work for the degree will be completed with less than the

entire number of grade points required for the degree for which he is a candidate shall be admitted to *qualified candidacy only*. Since under these conditions failure to graduate may result, ordering the diploma and making other plans for graduation may be done by the student entirely on his own responsibility.

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

### Other Academic Regulations

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

### Further Information

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

## OUTLINE OF COURSES

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

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

The student should consult the Twenty-Fifth Catalog for course descriptions and prerequisites.

### ACCOUNTING and FINANCE

REGINALD RUSHING, HEAD

#### ACCOUNTING

##### *First Term*

##### **For Undergraduates**

231. INDUSTRIAL ACCOUNTING FOR ENGINEERS. 3 sem. hrs.  
Mr. Norwood
244. ELEMENTARY ACCOUNTING. 4 sem. hrs., 9 lec. hrs., 9 lab. hrs.  
Mr. Gibson
245. ELEMENTARY ACCOUNTING. 4 sem. hrs., 9 lec. hrs., 9 lab. hrs.  
Mr. Gibson

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

322. PAYROLL ACCOUNTING. 2 sem. hrs. Mrs. Eaves
334. INTERMEDIATE ACCOUNTING. 3 sem. hrs. Staff
336. PRINCIPLES OF COST ACCOUNTING. 3 sem. hrs. Mr. Norwood
434. ADVANCED ACCOUNTING. 3 sem. hrs. Mr. Rushing.
437. PRINCIPLES OF AUDITING. 3 sem. hrs. Staff
441. MACHINE ACCOUNTING. 4 sem. hrs., 9 lec. hrs., 9 lab. hrs.  
Mrs. Eaves

##### **For Graduates**

531. C.P.A. PROBLEMS. 3 sem. hrs. Mr. Rushing
- 631-2. MASTER'S THESIS. 6 sem. hrs. Staff

**FINANCE****For Undergraduates and Graduates**

- 331. CORPORATION FINANCE. 3 sem. hrs. Mr. Mueller
- 334. CREDITS AND COLLECTIONS. 3 sem. hrs. Mr. Mueller
- 338. BUSINESS LAW. 3 sem. hrs. Mr. Wharton
- 339. BUSINESS LAW. 3 sem. hrs. Mr. Wharton
- 3310. OIL AND GAS LAW. 3 sem. hrs. Staff

*Second Term***ACCOUNTING****For Undergraduates**

- 245. ELEMENTARY ACCOUNTING. 4 sem. hrs., 9 lec. hrs., 9 lab. hrs.  
Staff

**For Undergraduates and Graduates**

- 321. ANALYSIS OF FINANCIAL STATEMENTS. 2 sem. hrs. Staff
- 335. INTERMEDIATE ACCOUNTING. 3 sem. hrs. Mr. Norwood
- 337. ADVANCED COST ACCOUNTING. 3 sem. hrs. Mr. Norwood
- 435. ADVANCED ACCOUNTING. 3 sem. hrs. Mr. Rushing
- 438. ADVANCED AUDITING. 3 sem. hrs. Staff

**For Graduates**

- 532. C.P.A. PROBLEMS. 3 sem. hrs. Mr. Rushing
- 631-2. MASTER'S THESIS. 6 sem. hrs. Staff

**FINANCE****For Undergraduates and Graduates**

- 331. CORPORATION FINANCE. 3 sem. hrs. Staff
- 339. BUSINESS LAW. 3 sem. hrs. Staff
- 434. INVESTMENTS. 3 sem. hrs. Staff

**AGRICULTURAL ECONOMICS**

E. L. MCBRIDE, HEAD

*First Term***AGRICULTURAL ECONOMICS****For Undergraduates**

- 235. FUNDAMENTALS OF ECONOMICS. 3 sem. hrs. Mr. McBride
- For Undergraduates and Graduates**
- 331. STATISTICAL PROBLEMS. 3 sem. hrs., 6 lec. hrs., 9 lab. hrs.  
Mr. Ashworth
- 427. AGRICULTURAL PRICES AND FORECASTING. 2 sem. hrs.  
Mr. Ashworth

**For Graduates**

531. PROBLEMS IN LAND USE. 3 sem. hrs. Staff  
 534. RESEARCH IN AGRICULTURAL ECONOMICS. 3 sem. hrs. Staff  
 631-2. THESIS. Staff

**RURAL SOCIOLOGY****For Undergraduates and Graduates**

432. RURAL SOCIOLOGY. 3 sem. hrs. Mr. McBride

**For Graduates**

532. CURRENT PROBLEMS IN RURAL SOCIOLOGY. 3 sem. hrs.  
 Mr. McBride  
 631-2. THESIS. Staff

*Second Term*

A. L. LEONARD, ACTING HEAD

**AGRICULTURAL ECONOMICS****For Undergraduates**

236. PRINCIPLES OF AGRICULTURAL MARKETING. 3 sem. hrs.  
 Mr. Pinson

**For Undergraduates and Graduates**

425. FARM LAWS. 2 sem. hrs. Mr. Leonard  
 431. LIVESTOCK MARKETING. 3 sem. hrs. Mr. Pinson  
 433. FARM MANAGEMENT. 3 sem. hrs., 6 lec. hrs., 9 lab. hrs.  
 Mr. Leonard

**For Graduates**

533. MARKETING PROBLEMS. 3 sem. hrs. Staff  
 535. RESEARCH IN AGRICULTURAL ECONOMICS. 3 sem. hrs. Staff  
 631-2. THESIS.

**AGRICULTURAL EDUCATION**

RAY L. CHAPPELLE, HEAD

*First Term***For Graduates**

511. PROBLEMS. 1 sem. hr. Mr. Chappelle  
 522. ADVANCED METHODS, I. 2 sem. hrs. Mr. Chappelle  
 523. ADVANCED METHODS, II. 2 sem. hrs. Mr. Leach  
 524. ADVANCED METHODS, III. 2 sem. hrs. Mr. Hargrave  
 531. INVESTIGATIONS IN THE FIELD OF AGRICULTURAL EDUCATION. 3  
 sem. hrs. Mr. Leach  
 532. INVESTIGATION IN THE FIELD OF AGRICULTURAL EDUCATION. 3

sem. hrs. Mr. Hargrave

631-2. THESIS. Mr. Chappelle

*Second Term*

**For Graduates**

511. PROBLEMS. 1 sem. hr. Mr. Chappelle

531. INVESTIGATIONS IN THE FIELD OF AGRICULTURAL EDUCATION. 3 sem. hrs. Mr. Leach

532. INVESTIGATIONS IN THE FIELD OF AGRICULTURAL EDUCATION. 3 sem. hrs. Mr. Hargrave

631-2. THESIS. Mr. Chappelle

**ANIMAL HUSBANDRY**

R. C. MOWERY, HEAD

*First Term*

**ANIMAL HUSBANDRY**

**For Undergraduates**

231. BREEDS OF LIVESTOCK. 3 sem. hrs. Mr. Anderson

421. PUREBRED HERDS AND FLOCKS. 3 sem. hrs., 6 lec. hrs., 9 lab. hrs. Mr. Anderson

**For Undergraduates and Graduates**

422. ANIMAL BREEDING. 2 sem. hrs. Mr. Fine

424. BEEF CATTLE PRODUCTION. 2 sem. hrs. Mr. Stangel

**For Graduates**

531. ADVANCED ANIMAL HUSBANDRY. 3 sem. hrs. Mr. Fine

631-2. THESIS. Staff

*Second Term*

**ANIMAL HUSBANDRY**

**For Undergraduates**

131. GENERAL ANIMAL HUSBANDRY. 3 sem. hrs., 6 lec. hrs., 9 lab. hrs. Mr. Boren

322. FARM MEATS. 2 sem. hrs., 3 lec. hrs., 9 lab. hrs. Mr. Boren

331. PRINCIPLES OF FEEDING. 3 sem. hrs., 6 lec. hrs., 9 lab. hrs. Mr. Turner

**For Undergraduates and Graduates**

423. ANIMAL NUTRITION. 2 sem. hrs. Mr. Turner

426. SHEEP AND WOOL PRODUCTION. 2 sem. hrs. Mr. Mowery

427. SWINE PRODUCTION. 2 sem. hrs. Mr. Mowery

**For Graduates**

532. ADVANCED ANIMAL HUSBANDRY. 3 sem. hrs. Staff  
631-2. THESIS. Staff

## VETERINARY SCIENCE

**For Undergraduates**

330. GENERAL VETERINARY SCIENCE. 3 sem. hrs. Mr. Harbaugh

## APPLIED ARTS

MRS. ETHEL BEITLER, ACTING HEAD

*First Term***For Undergraduates**

131. APPLIED ARTS. 3 sem. hrs., 3 lec. hrs., 9 lab. hrs. Mrs. Beitler  
232. APPLIED ARTS. 3 sem. hrs., 3 lec. hrs., 18 lab. hrs. Staff

**For Graduates**

531. APPLIED ARTS. Special Problems. 3 sem. hrs. Staff

*Second Term*

MISS MARTYE POINDEXTER, HEAD

**For Undergraduates and Graduates**

331. APPLIED ARTS. 3 sem hrs., 6 lec. hrs., 9 lab. hrs. Miss Poindexter  
434. HOME ECONOMICS EDUCATION. 3 sem. hrs., 9 lec. hrs.  
Miss Poindexter

## ARCHITECTURE and ALLIED ARTS

FLORIAN A. KLEINSCHMIDT, HEAD

*First Term*

## ARCHITECTURE

**For Undergraduates**

- 121 or 122. FREEHAND DRAWING, I and II. 2 sem. hrs., 18 lab. hrs.,  
each. Mr. Hale  
125. SHADES AND SHADOWS. 2 sem. hrs., 18 lab. hrs. Miss Houghton  
131. INTRODUCTION TO DESIGN. 3 sem. hrs., 27 lab. hrs.,  
Miss Houghton, Mr. Kleinschmidt  
224. FREEHAND DRAWING III. 2 sem. hrs., 18 lab. hrs. Miss Houghton  
225. FREEHAND DRAWING IV. (BEGINNING WATERCOLOR) 2 sem.  
hrs., 18 lab. hrs. Miss Houghton

**For Undergraduates and Graduates**

351. ARCHITECTURAL DESIGN, GRADE II. 5 sem. hrs., 45 lab. hrs.  
Mr. Kleinschmidt

**ALLIED ARTS**

- 426 or 427. OIL PAINTING OR ADVANCED WATERCOLOR. 2 sem. hrs., 18 lab. hrs. Mr. Hale

**PUBLIC SCHOOL ART**

- 328 or 329. POSTER DESIGN AND LETTERING. 2 sem. hrs., 18 lab. hrs., each. Miss Houghton  
335. HISTORY OF ARTS. 3 sem. hrs., 9 lec. hrs. Mrs. Sasser  
337. ART IN ELEMENTARY EDUCATION. 3 sem. hrs., 6 lec. hrs., 9 lab. hrs. Mrs. Sasser  
439. METHODS OF TEACHING ART INTEGRATED FOR THE ELEMENTARY SCHOOL. 3 sem. hrs., 6 lec. hrs., 9 lab. hrs. Mrs. Sasser  
4313. METHODS OF TEACHING ART INTEGRATED FOR THE HIGH SCHOOL. 3 sem. hrs., 6 lec. hrs., 9 lab. hrs. Mrs. Sasser

*Second Term*

ROBERT L. LOCKARD, ACTING HEAD

**ARCHITECTURE****For Undergraduates**

- 121 or 122. FREEHAND DRAWING. 2 sem. hrs., 18 lab. hrs., each.  
Mr. Tracy  
126. PERSPECTIVE. 2 sem. hrs., 18 lab. hrs. Mr. Lockard  
132. INTRODUCTION TO DESIGN. 3 sem. hrs., 27 lab. hrs. Mr. Lockard

**For Undergraduates and Graduates**

- 3216 or 3217. ARCHITECTURAL SCULPTURE. 2 sem. hrs., 18 lab. hrs.,  
Mr. Tracy  
352. ARCHITECTURAL DESIGN, GRADE II. 5 sem. hrs., 45 lab. hrs.  
Mr. Lockard

**ALLIED ARTS****For Undergraduates**

- 239 or 2310. POTTERY. 3 sem. hrs., 27 lab. hrs., each. Mr. Tracy

**For Undergraduates and Graduates**

- 4311 or 4312. CERAMICS. 3 sem. hrs., 27 lab. hrs., each. Mr. Tracy

**PUBLIC SCHOOL ART**

- 328 or 329. POSTER DESIGN AND LETTERING. 2 sem. hrs., 18 lab. hrs., each. Mr. Parkinson  
336. HISTORY OF ART. 3 sem. hrs., 9 lec. hrs. Mr. Lockard

338. ART IN ELEMENTARY EDUCATION. 3 sem. hrs., 6 lec. hrs., 9 lab. hrs. Mr. Parkinson
4310. METHODS OF TEACHING ART INTEGRATED FOR THE ELEMENTARY SCHOOL. 3 sem. hrs., 6 lec. hrs., 9 lab. hrs. Mr. Parkinson
4314. METHODS OF TEACHING ART INTEGRATED FOR THE HIGH SCHOOL. 3 sem. hrs., 6 lec. hrs., 9 lab. hrs. Mr. Parkinson

## BIOLOGY

J. C. CROSS, HEAD

### *First Term*

#### BACTERIOLOGY

##### **For Undergraduates**

231. BACTERIOLOGY. 3 sem. hrs., 6 lec. hrs., 9 lab. hrs. Mr. Sealey
- For Undergraduates and Graduates**
- 331-2. GEN. BACTERIOLOGY. 6 sem. hrs., 12 lec. hrs., 18 lab. hrs. Staff

#### BIOLOGY

##### **For Undergraduates**

134. ZOOLOGY. 3 sem. hrs., 6 lec. hrs., 9 lab. hrs. Mr. Landwer

#### ZOOLOGY

##### **For Undergraduates**

135. ANATOMY AND PHYSIOLOGY. 3 sem. hrs., 6 lec. hrs., 9 lab. hrs. Mr. Cross

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

332. EMBRYOLOGY. 3 sem. hrs., 6 lec. hrs., 9 lab. hrs. Mr. Landwer
531. PROBLEMS. 3 sem. hrs. Arranged. Mr. Cross

### *Second Term*

#### BIOLOGY

##### **For Undergraduates**

133. BOTANY. 3 sem. hrs., 6 lec. hrs., 9 lab. hrs. Mr. Studhalter

#### BOTANY

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

232. TAXONOMY. 3 sem. hrs., 6 lec. hrs., 9 lab. hrs. Mr. Studhalter
- For Graduates**
531. PROBLEMS. 3 sem. hrs. Arranged. Mr. Studhalter
534. ADVANCED PLANT ANATOMY. 3 sem. hrs. Arranged. Mr. Studhalter

**ZOOLOGY****For Undergraduates**

136. ANATOMY AND PHYSIOLOGY. 3 sem. hrs., 6 lec. hrs., 9 lab. hrs.,  
Mr. Cross

**For Undergraduates and Graduates**

334. ENTOMOLOGY. 3 sem. hrs., 6 lec. hrs., 9 lab. hrs. Mr. Cross

**For Graduates**

531. PROBLEMS. 3 sem. hrs. Arranged. Mr. Cross  
631. THESIS. 3 sem. hrs. Arranged. Mr. Cross

**BUSINESS EDUCATION and SECRETARIAL ADMINISTRATION**

C. B. SHIPLEY, HEAD

*First Term***BUSINESS EDUCATION****For Undergraduates and Graduates**

422. IMPROVEMENT OF INSTRUCTION IN BOOKKEEPING AND THE  
SOCIAL BUSINESS SUBJECTS. 2 sem. hrs. Mr. Schick  
423. IMPROVEMENT OF INSTRUCTION IN TYPEWRITING AND  
SHORTHAND. 2 sem. hrs. Mr. Shipley

**For Graduates**

530. OBJECTIVES AND PRINCIPLES OF BUSINESS EDUCATION. 3 sem.  
hrs. Mr. Schick  
531. CURRICULUM PROBLEMS OF BUSINESS EDUCATION. 3 sem. hrs.  
Mr. Shipley  
631-2. MASTER'S THESIS. 6 sem. hrs. Staff

**SECRETARIAL ADMINISTRATION****For Undergraduates**

111. TYPEWRITING FOR PERSONAL USE. 1 sem. hr. Mr. Shipley  
236. INTERMEDIATE SHORTHAND. 3 sem. hrs. Staff

**For Undergraduates and Graduates**

321. OFFICE MACHINES. 2 sem. hrs. Mr. Schick  
333. BUSINESS CORRESPONDENCE. 3 sem. hrs. Staff  
337. REPORT WRITING. 3 sem. hrs. Staff

*Second Term***BUSINESS EDUCATION****For Undergraduates and Graduates**

424. IMPROVEMENT OF INSTRUCTION IN BASIC BUSINESS. 2 sem. hrs.  
Mr. Schick

425. IMPROVEMENT OF INSTRUCTION IN OFFICE MACHINES. 2 sem. hrs. Mr. Schick

**For Graduates**

532. GUIDANCE IN BUSINESS EDUCATION. 3 sem. hrs. Mr. Shipley  
533. SUPERVISION AND ADMINISTRATION OF BUSINESS EDUCATION. 3 sem. hrs. Mr. Shipley  
631-2. MASTER'S THESIS. 6 sem. hrs. Staff

**SECRETARIAL ADMINISTRATION**

**For Undergraduates and Graduates**

333. BUSINESS CORRESPONDENCE. 3 sem. hrs. Staff  
421. VOICE WRITING AND DUPLICATING. 2 sem. hrs. Mr. Schick

**CHEMISTRY AND CHEMICAL ENGINEERING**

JOE DENNIS, HEAD

*First Term*

**CHEMISTRY**

**For Undergraduates**

131. GENERAL CHEMISTRY. 3 sem. hrs., 7½ lec. hrs., 7½ lab hrs. Mr. Detman and Staff  
131. GENERAL CHEMISTRY. Nurses Section. 3 sem. hrs., 7½ lec. hrs., 7½ lab. hrs. Miss Stuart, Mr. Southall  
132. GENERAL CHEMISTRY. 3 sem. hrs., 7½ lec. hrs., 7½ lab. hrs., Mr. Craig, Mr. Southall  
220. QUALITATIVE ANALYSIS. 2 sem. hrs., 3 lec. hrs., 9 lab. hrs. Miss Stuart  
330. THE TEACHING OF CHEMISTRY. 3 sem. hrs. Mr. Southall  
331. QUANTITATIVE ANALYSIS. 3 sem. hrs., 22½ lab. hrs. Mr. Craig  
341. ORGANIC CHEMISTRY. 4 sem. hrs., 9 lec. hrs., 9 lab. hrs. Mr. Hufstedler  
343. ORGANIC CHEMISTRY. 4 sem. hrs., 9 lec. hrs., 9 lab. hrs. Mr. Dennis

**For Undergraduates and Graduates**

411. SEMINAR. 1 sem. hr. Staff  
434. ORGANIC PREPARATIONS. 3 sem. hrs., 22½ lab. hrs. Mr. Dennis

**For Graduates**

537. ADVANCED WORK IN SPECIFIC FIELDS. 3 sem. hrs. Staff  
631. THESIS. Staff

*Second Term*

## CHEMISTRY

**For Undergraduates**

132. GENERAL CHEMISTRY. 3 sem. hrs., 7½ lec. hrs., 7½ lab. hrs.  
Mr. Slagle, Miss Brock
132. GENERAL CHEMISTRY, Nurses Section. 3 sem. hrs., 7½ lec. hrs.,  
7½ lab. hrs. Miss Brock
242. INORGANIC CHEMISTRY. 4 sem. hrs., 9 lec. hrs., 9 lab. hrs. Mr.  
Slagle
332. QUANTITATIVE ANALYSIS. 3 sem. hrs., 22½ lab. hrs. Mr. Oberg
344. ORGANIC CHEMISTRY. 4 sem. hrs., 9 lec. hrs., 9 lab. hrs. Mr.  
Goodwin

**For Undergraduates and Graduates**

412. SEMINAR. 1 sem. hr. Staff
435. ADVANCED QUANTITATIVE ANALYSIS. 3 sem. hrs., 22½ lab. hrs.  
Mr. Oberg.

**For Graduates**

538. ADVANCED WORK IN SPECIFIC FIELDS. 3 sem. hrs. Staff
632. THESIS. Staff

## CHILD DEVELOPMENT

MISS SANNIE CALLAN, HEAD

*First Term*

## CHILD DEVELOPMENT

**For Undergraduates**

431. DEVELOPMENT OF LEARNING IN YOUNG CHILDREN. 3 sem hrs.,  
6 lec. hrs., 9 lab. hrs. Mrs. Gifford

## FAMILY RELATIONS

**For Undergraduates and Graduates**

433. FAMILY RELATIONS. 3 sem. hrs. Miss Callan

## CIVIL ENGINEERING

JAMES H. MURDOUGH, HEAD

*First Term***For Undergraduates**

231. PLANE SURVEYING. 3 sem. hrs., 6 lec. hrs., 9 lab. hrs. Mr.  
Overby

310. TESTING LABORATORY. 1 sem. hr., 9 lab. hrs. 2 sections. Mr. Harding
330. STRUCTURES. 3 sem. hrs. Mr. Harding
331. STATICS. 3 sem. hrs. Mr. Whetstone
332. KINEMATICS AND KINETICS. 3 sem. hrs. 2 sections. Mr. Murdough and Mr. Whetstone
333. STRENGTH OF MATERIALS. 3 sem. hrs. Mr. Murdough
336. HIGHWAYS. 3 sem. hrs. Mr. McRee  
**For Undergraduates and Graduates**
439. LAW AND ETHICS. 3 sem. hrs. Mr. McRee

*Second Term*

FITZHUGH L. MCREE, ACTING HEAD

**For Undergraduates**

231. PLANE SURVEYING. 3 sem. hrs., 6 lec. hrs., 9 lab. hrs. Mr. Gilbert
331. STATICS. 3 sem. hrs. Mr. Gilbert
332. KINEMATICS AND KINETICS. 3 sem. hrs. 3 sections. Mr. Harding and Mr. Whetstone
333. STRENGTH OF MATERIALS. 3 sem. hrs. Mr. Harding
334. SURVEYING. 3 sem. hrs., 6 lec. hrs., 9 lab. hrs. Mr. McRee
339. FLUID MECHANICS. 3 sem. hrs. Mr. Whetstone  
**For Undergraduates and Graduates**
439. LAW AND ETHICS. 3 sem. hrs. Mr. McRee

## CLOTHING and TEXTILES

MRS. LILA KINCHEN, HEAD

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

435. HOME FURNISHINGS. 3 sem. hrs. Mrs. Kinchen  
**For Graduates**
531. ADVANCED GARMENT FITTINGS. Mrs. Kinchen

*Second Term*

MISS ELLEN WRIGHT, ACTING HEAD

**For Undergraduates**

131. BASIC TEXTILES. 3 sem. hrs. Miss Wright  
**For Undergraduates and Graduates**
331. TAILORING. 3 sem. hrs. Miss Wright

**DAIRY MANUFACTURES**

J. J. WILLINGHAM, HEAD

*First Term***For Undergraduates**

131. PRINCIPLES OF DAIRYING. 3 sem. hrs., 6 lec. hrs., 9 lab. hrs. Mr. Willingham

**For Undergraduates and Graduates**

335. DAIRY BACTERIOLOGY. 3 sem. hrs., 6 lec. hrs., 9 lab. hrs. Mr. Harmon  
341. MARKET MILK. 4 sem. hrs., 9 lec. hrs., 9 lab. hrs. Mr. Harmon

**For Graduates**

512. ADVANCED DAIRY PRODUCTS QUALITY CONTROL. 1 sem. hr. Mr. Willingham  
531. DAIRY MANUFACTURING PROBLEMS. 3 sem. hrs. Mr. Willingham  
631-2. THESIS. Mr. Willingham

*Second Term***For Undergraduates**

222. THE DAIRY INDUSTRIES. 2 sem. hrs., 6 lec. hrs. Mr. Willingham

**For Undergraduates and Graduates**

323. JUDGING DAIRY PRODUCTS. 2 sem. hrs., 3 lec. hrs., 9 lab. hrs. Mr. Willingham

**For Graduates**

532. DAIRY MANUFACTURING PROBLEMS. 3 sem. hrs. Mr. Willingham  
631-2. THESIS. Mr. Willingham

**ECONOMICS**

V. T. CLOVER, ACTING HEAD

*First Term***For Undergraduates**

231. PRINCIPLES OF ECONOMICS. 3 sem. hrs. Mr. Rouse  
223. PRINCIPLES OF ECONOMICS. 3 sem. hrs. Staff  
235. PRINCIPLES OF ECONOMICS. 3 sem. hrs. Staff

**For Undergraduates and Graduates**

335. TRANSPORTATION PRINCIPLES AND PRACTICES. 3 sem. hrs. Staff  
338. FOREIGN TRADE. 3 sem. hrs. Staff  
3313. CONSUMER ECONOMICS. 3 sem. hrs. Mr. Clover  
438. RESEARCH IN ECONOMICS AND BUSINESS. 3 sem. hrs. Mr. Clover

**For Graduates**

531. ECONOMIC RESEARCH. 3 sem. hrs. Staff  
 631-2. MASTER'S THESIS. 6 sem. hrs. Staff

*Second Term*

R. L. ROUSE, ACTING HEAD

**For Undergraduates**

231. PRINCIPLES OF ECONOMICS. 3 sem. hrs. Mr. Rouse  
 232. PRINCIPLES OF ECONOMICS. 3 sem. hrs. Mr. Rouse  
**For Undergraduates and Graduates**  
 333. PUBLIC EXPENDITURES. 3 sem. hrs. Mr. Clover  
 438. RESEARCH IN ECONOMICS AND BUSINESS. Mr. Clover  
**For Graduates**  
 631-2. MASTER'S THESIS. 6 sem. hrs. Staff

## EDUCATION and EDUCATIONAL PSYCHOLOGY

JOHN S. CARROLL, HEAD

*First Term*

## EDUCATION

**For Undergraduates**

130. FOUNDATIONS OF EDUCATION. 3 sem. hrs. Mr. Thompson  
 230. EDUCATIONAL PSYCHOLOGY. 3 sem. hrs. Staff  
 431. STUDENT OBSERVATION AND TEACHING IN THE ELEMENTARY SCHOOL. 3 sem. hrs. Mr. McDonald  
 432. STUDENT OBSERVATION AND TEACHING IN THE SECONDARY SCHOOL. 3 sem. hrs. Mr. Edwards  
**For Undergraduates and Graduates**  
 330. PRINCIPLES OF MODERN EDUCATION. 3 sem. hrs. Mr. Thompson  
 333. CURRICULUM DEVELOPMENT IN ELEMENTARY EDUCATION. 3 sem. hrs. Mr. McDonald  
 335. ELEMENTARY EDUCATION METHODS. 3 sem. hrs. Mr. Livingston  
 3311. READING DEVELOPMENT IN THE ELEMENTARY SCHOOL. 3 sem. hrs. Mr. Livingston  
 3314. SECONDARY SCHOOL ORGANIZATION AND ADMINISTRATION. 3 sem. hrs. Staff  
 3315. AUDIO-VISUAL EDUCATION. 3 sem. hrs. Mr. Mecham  
 435. EDUCATIONAL EVALUATION. 3 sem. hrs. Staff  
 436. PUBLIC SCHOOL ADMINISTRATION. 3 sem. hrs. Staff  
 437. PUBLIC SCHOOL RELATIONS. 3 sem. hrs. Mr. Jackson  
 438. SUPERVISION AND CURRICULUM DEVELOPMENT. 3 sem. hrs. Staff

**For Graduates**

531. EDUCATIONAL RESEARCH. 3 sem. hrs. Mr. Davidson, Mr. Cooper  
 5311. APPLIED EDUCATIONAL RESEARCH. 3 sem. hrs. Mr. Davidson, Mr. Cooper  
 5312. ELEMENTARY SUPERVISION AND CURRICULUM DEVELOPMENT. 3 sem. hrs. Staff  
 5314. ADVANCED CURRICULUM WORKSHOP. 3 sem. hrs. Staff  
 534. ADVANCED EDUCATIONAL PSYCHOLOGY. 3 sem. hrs. Staff  
 5352. SEMINAR IN HISTORY AND PHILOSOPHY OF EDUCATION. 3 sem. hrs. Mr. Jackson  
 5355. SEMINAR IN ELEMENTARY EDUCATION. 3 sem. hrs. Mr. Mecham  
 5356. SEMINAR IN SECONDARY EDUCATION. 3 sem. hrs. Staff  
 5358. SEMINAR IN EDUCATIONAL ADMINISTRATION. 3 sem. hrs. Mr. Carroll  
 631-2. EDUCATION THESIS SEMINAR. 3 sem. hrs. Seminar Staff

**EDUCATIONAL PSYCHOLOGY****For Undergraduates and Graduates**

331. CHILD PSYCHOLOGY. 3 sem. hrs. Miss True  
 333. STATISTICAL METHODS. 3 sem. hrs. Mr. Richards  
 335. ADOLESCENT PSYCHOLOGY. 3 sem. hrs. Staff  
 337. INTRODUCTION TO COUNSELING AND GUIDANCE. 3 sem. hrs. Mr. Barnett  
 431. TESTS AND MEASUREMENTS. 3 sem. hrs. Mr. Barnett  
 433. MENTAL HYGIENE. 3 sem. hrs. Miss True

**SPEECH EDUCATION****For Undergraduates and Graduates**

4318. SPEECH CORRECTION. 3 sem. hrs. Mr. Larson

*Second Term***EDUCATION****For Undergraduates**

131. PERSONAL GROWTH IN EDUCATION. 3 sem. hrs. Mr. Thompson  
 231. EDUCATIONAL SOCIOLOGY. 3 sem. hrs. Mr. Thompson

**For Undergraduates and Graduates**

330. PRINCIPLES OF MODERN EDUCATION. 3 sem. hrs. Mr. Garlin  
 333. CURRICULUM DEVELOPMENT IN ELEMENTARY EDUCATION. 3 sem. hrs. Mr. Livingston  
 334. CURRICULUM DEVELOPMENT IN SECONDARY EDUCATION. 3 sem. hrs. Staff  
 335. ELEMENTARY EDUCATION METHODS. 3 sem. hrs. Mr. Mecham  
 336. SECONDARY EDUCATION METHODS. 3 sem. hrs. Mr. Edwards

3310. CHILDREN'S LITERATURE. 3 sem. hrs. Mr. McDonald  
 3311. READING DEVELOPMENT IN THE ELEMENTARY SCHOOL. 3 sem. hrs. Mr. Livingston  
 430. HISTORY AND PHILOSOPHY OF EDUCATION. 3 sem. hrs. Mr. Jackson  
 435. EDUCATIONAL EVALUATION. 3 sem. hrs. Staff  
**For Graduates**  
 531. EDUCATIONAL RESEARCH. 3 sem. hrs. Mr. Davidson, Mr. Cooper  
 532. PHILOSOPHY OF EDUCATION. 3 sem. hrs. Mr. Jackson  
 536. ELEMENTARY SCHOOL ADMINISTRATION. 3 sem. hrs. Mr. McDonald  
 538. ADVANCED AUDIO-VISUAL EDUCATION. 3 sem. hrs. Mr. Mecham  
 5311. APPLIED EDUCATIONAL RESEARCH. 3 sem. hrs. Mr. Davidson, Mr. Cooper  
 5313. SECONDARY SUPERVISION AND CURRICULUM DEVELOPMENT. 3 sem. hrs. Staff  
 5357. SEMINAR IN THE JUNIOR COLLEGE. 3 sem. hrs. Mr. Garlin  
 5358. SEMINAR IN EDUCATIONAL ADMINISTRATION. 3 sem. hrs. Mr. Hill, Mr. Carroll  
 5359. SEMINAR IN SUPERVISION AND CURRICULUM DEVELOPMENT. 3 sem. hrs. Staff, Mr. Carroll  
 631-2. EDUCATION THESIS SEMINAR. 3 sem. hrs. Seminar Staff

## EDUCATIONAL PSYCHOLOGY

**For Undergraduates and Graduates**

333. STATISTICAL METHODS. 3 sem. hrs. Mr. Barnett  
 431. TESTS AND MEASUREMENTS. 3 sem. hrs. Mr. Barnett

**For Graduates**

530. ADVANCED EDUCATIONAL PSYCHOLOGY. 3 sem. hrs. Mr. Hutchins

## SPEECH EDUCATION

**For Undergraduates and Graduates**

4319. SPEECH CORRECTION. 3 sem. hrs. Mr. Larson

## ELECTRICAL ENGINEERING

CHARLES V. BULLEN, HEAD

*First Term***For Undergraduates**

221. ELECTRICAL ENGINEERING LABORATORY. 2 sem. hrs., 18 lab. hrs. Mr. Stenis  
 231. PRINCIPLES OF ELECTRICAL ENGINEERING. 3 sem. hrs. Mr. Stenis

412. ELECTRICAL ENGINEERING LABORATORY. 1 sem. hr., 9 lab. hrs.  
Mr. Houston, Mr. Minter, Mr. Harman
426. ELEMENTS OF ELECTRICAL ENGINEERING. 2 sem. hrs. Mr.  
Harman
438. ELEMENTS OF ELECTRICAL ENGINEERING. 3 sem. hrs. Mr.  
Minter

**For Undergraduates and Graduates**

322. ALTERNATING CURRENT CIRCUITS LABORATORY. 2 sem. hrs., 18  
lab. hrs. Mr. Stenis, Mr. Harman
323. \*ELECTRONICS LABORATORY. 2 sem. hrs., 18 lab hrs. Mr. Harman
325. \*ELECTRONICS. 2 sem. hrs., 6 lec. hrs. Mr. Stenis
332. ALTERNATING CURRENT CIRCUITS. 3 sem. hrs. Mr. Houston
4112. ELECTRICAL MACHINERY LABORATORY. 2 sem. hrs., 9 lab. hrs.  
Mr. Minter
4212. ELECTRICAL MACHINERY LABORATORY. 2 sem. hrs., 18 lab. hrs.  
Mr. Bullen
4312. ELECTRICAL MACHINERY. 3 sem. hrs. Mr. Bullen

\*One-half of course completed each term.

*Second Term*

MARION J. SMITH, ACTING HEAD

**For Undergraduates**

222. ELECTRICAL ENGINEERING LABORATORY. 2 sem. hrs., 18 lab. hrs.  
Mr. Stenis
232. PRINCIPLES OF ELECTRICAL ENGINEERING. 3 sem. hrs. Mr.  
Stenis
413. ELECTRICAL ENGINEERING LABORATORY. 1 sem. hr., 9 lab. hrs.  
Mr. Spuhler, Mr. Minter, Mr. Harman
427. ELEMENTS OF ELECTRICAL ENGINEERING. 2 sem. hrs. Mr.  
Harman
439. ELEMENTS OF ELECTRICAL ENGINEERING. 3 sem. hrs. Mr.  
Minter

**For Undergraduates and Graduates**

323. \*ELECTRONICS LABORATORY. 2 sem. hrs., 18 lab hrs. Mr. Harman
324. COMMUNICATION CIRCUITS LABORATORY. 2 sem. hrs., 18 lab hrs.,  
Mr. Spuhler
325. \*ELECTRONICS. 2 sem. hrs., 6 lec. hrs. Mr. Stenis
334. COMMUNICATIONS CIRCUITS. 3 sem. hrs. Mr. Spuhler
4113. ELECTRICAL MACHINERY LABORATORY. 1 sem. hr., 9 lab. hrs.,  
Mr. Smith
4213. ELECTRICAL MACHINERY LABORATORY. 2 sem. hrs., 18 lab. hrs.  
Mr. Smith

4313. ELECTRICAL MACHINERY. 3 sem. hrs. Mr. Smith

\*One-half of course completed each term.

## ENGLISH

H. N. WHITE, ACTING HEAD

### *First Term*

#### **For Undergraduates**

131. ENGLISH COMPOSITION. 3 sem. hrs. Mrs. Gahring  
 132. ENGLISH COMPOSITION. 3 sem. hrs. Mrs. Russell, Miss Green  
 233. TECHNICAL WRITING. 3 sem. hrs. Miss Green  
 234. SPECIAL WORK ON CORRECT USAGE. 3 sem. hrs. Mrs. Russell  
 237. TYPES AND MASTERPIECES OF LITERATURE. 3 sem. hrs. Mr. Murphy, Mr. Gunn  
 238. TYPES AND MASTERPIECES OF LITERATURE. 3 sem. hrs. Mr. Smallwood  
 3310. THE TEACHING OF ENGLISH IN THE SECONDARY SCHOOL. 3 sem. hrs. Mr. White  
 3323. MASTERPIECES OF WORLD LITERATURE. 3 sem. hrs. Mr. Murphy

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

3320. AMERICAN DRAMA. 3 sem. hrs. Mr. Smallwood  
 432. SHAKESPEARE. 3 sem. hrs. Mr. Strout  
 435. ENGLISH ROMANTICISM. 3 sem. hrs. Mr. Strout  
 439. CURRENT ENGLISH. 3 sem. hrs. Mr. Gunn  
 4320. AMERICAN LITERATURE. 3 sem. hrs. Mr. White

#### **For Graduates**

536. STUDIES IN AMERICAN LITERATURE. 3 sem. hrs. Mr. White  
 538. STUDIES IN ENGLISH ROMANTIC POETS. 3 sem. hrs. Mr. Strout  
 5319. STUDIES IN SHAKESPEARE. 3 sem. hrs. Mr. Strout  
 631-2. THESIS. Staff

### *Second Term*

T. W. CAMP, HEAD

#### **For Undergraduates**

131. ENGLISH COMPOSITION. 3 sem. hrs. Mrs. Carter  
 132. ENGLISH COMPOSITION. 3 sem. hrs. Mrs. Wilson, Miss Teague  
 233. TECHNICAL WRITING. 3 sem. hrs. Mr. Polk  
 237. TYPES AND MASTERPIECES OF LITERATURE. 3 sem. hrs. Mrs. Wilson  
 238. TYPES AND MASTERPIECES OF LITERATURE. 3 sem. hrs. Mrs. Carter, Mr. Gillis

**For Undergraduates and Graduates**

433. SHAKESPEARE. 3 sem. hrs. Mr. Camp  
 4311. EARLY 18TH CENTURY POETRY AND PROSE. 3 sem. hrs. Mr. Camp  
 4311. EARLY 19TH CENTURY POETRY AND PROSE. 3 sem. hrs. Miss Teague  
 4321. AMERICAN LITERATURE AND ITS BACKGROUND. 3 sem. hrs. Mr. Male  
 4322. LIFE AND LITERATURE OF THE SOUTHWEST. 3 sem. hrs. Mr. Gillis  
 4326. TYPES OF AMERICAN FICTION. 3 sem. hrs. Mr. Male

**For Graduates**

536. STUDIES IN AMERICAN LITERATURE. 3 sem. hrs. Mr. Male  
 5319. STUDIES IN SHAKESPEARE. 3 sem. hrs. Mr. Camp  
 631-2. THESIS. Staff

**FOODS and NUTRITION**

MRS. JONNIE MICHIE, HEAD

*First Term***NUTRITION AND DIETETICS****For Undergraduates**

333. ELEMENTARY NUTRITION AND FOOD SELECTION. 3 sem. hrs. Miss Weeks  
 334. ELEMENTARY NUTRITION. 3 sem. hrs. Mrs. Michie

**For Graduates**

533. READINGS IN NUTRITION. 3 sem. hrs. Mrs. Michie

*Second Term*

MISS MARTHA BUTTRILL, ACTING HEAD

**FOODS AND COOKERY****For Undergraduates**

132. ELEMENTARY FOOD PREPARATION AND SERVING. 3 sem. hrs. Miss Buttrill

**For Undergraduates and Graduates**

332. FOOD PURCHASING. 3 sem. hrs. Miss Buttrill  
 431. PROBLEMS OF THE SCHOOL LUNCH PROGRAM. 3 sem. hrs. Mrs. Lamb. (3 week course—July 16-August 4)

## FOREIGN LANGUAGES

MRS. EUNICE J. GATES, ACTING HEAD

*First Term***For Undergraduates**

## FRENCH

131. A BEGINNING COURSE IN FRENCH. 3 sem. hrs. Mr. Hamlett  
231. A READING COURSE IN FRENCH. 3 sem. hrs. Mr. Hamlett

## GERMAN

131. A BEGINNING COURSE IN GERMAN. 3 sem. hrs. Mr. Henninger  
231. A READING COURSE IN LITERARY GERMAN. 3 sem. hrs. Mr. Henninger  
233. SCIENTIFIC GERMAN. 3 sem. hrs. Mr. Henninger

## SPANISH

131. A BEGINNING COURSE IN SPANISH. 3 sem. hrs. Mr. Reynolds  
132. A BEGINNING COURSE IN SPANISH. 3 sem. hrs. Staff  
231. GRAMMAR, READING, COMPOSITION, AND CONVERSATION. 3 sem. hrs. Mr. Reynolds  
333. A READING COURSE FOR THIRD-YEAR STUDENTS. 3 sem. hrs. Mr. Hamilton

**For Undergraduates and Graduates**

437. ADVANCED GRAMMAR, COMPOSITION, AND STYLE. 3 sem. hrs. Mr. Hamilton  
4326. A SURVEY OF SPANISH-AMERICAN LITERATURE. 3 sem. hrs. Mrs. Gates

**For Graduates**

5312. STUDIES IN SPANISH AND SPANISH-AMERICAN LITERATURE. 3 sem. hrs. Mrs. Gates  
631-2. THESIS. Staff

*Second Term*

ALFRED B. STREHLI, ACTING HEAD

**For Undergraduates**

## FRENCH

132. A BEGINNING COURSE IN FRENCH. 3 sem. hrs. Mrs. Alexander  
232. A READING COURSE IN FRENCH. 3 sem. hrs. Mrs. Alexander

## GERMAN

132. A BEGINNING COURSE IN GERMAN. 3 sem. hrs. Mr. Alexander  
232. A READING COURSE IN LITERARY GERMAN. 3 sem. hrs. Mr.  
Alexander  
234. SCIENTIFIC GERMAN. 3 sem. hrs. Mr. Alexander

## SPANISH

132. A BEGINNING COURSE IN SPANISH. 3 sem. hrs. Mr. Sadler  
232. GRAMMAR, READING, COMPOSITION, AND CONVERSATION. 3 sem.  
hrs. Mr. Sadler  
334. A READING COURSE FOR THIRD-YEAR STUDENTS. 3 sem. hrs.  
Mrs. Tucker

**For Undergraduates and Graduates**

435. TEACHERS' COURSE IN METHODS OF TEACHING SPANISH. 3 sem.  
hrs. Mrs. Tucker  
4327. A SURVEY OF SPANISH-AMERICAN LITERATURE. 3 sem. hrs.  
Mr. Strehli

**For Graduates**

5313. STUDIES IN SPANISH AND SPANISH-AMERICAN LITERATURE. 3  
sem. hrs. Mr. Strehli  
631-2. THESIS. Mr. Strehli

## GEOLOGY

R. G. SIDWELL, HEAD

*First Term***For Undergraduates**

- 132-2. GENERAL GEOLOGY. 6 sem. hrs., 18 lec. hrs., 12 lab. hrs.  
Mr. Sidwell

**For Undergraduates and Graduates**

- 333-4. PETROGRAPHY AND PETROLOGY. 6 sem. hrs., 6 lec. hrs., 36 lab.  
hrs. Mrs. Keesee  
363. FIELD GEOLOGY. GIVEN IN THE FIELD. Mr. Weart, Mr. Meade,  
Mr. Bond  
433-4. STRUCTURAL GEOLOGY, PETROLEUM GEOLOGY. 6 sem. hrs.  
Mr. Warn

**For Graduates**

531. ADVANCED SEDIMENTATION. 3 sem. hrs. Mr. Sidwell  
535. ADVANCED WORK IN GEOLOGY. 3 sem. hrs. Mr. Sidwell  
631. THESIS.

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

363. FIELD GEOLOGY. Given in the field. Mr. Warn, Mr. Meade, Mr. Hayes
- 437-8. SEDIMENTATION. 6 sem. hrs., 18 lec. hrs. Mr. Sidwell
- For Graduates**
532. ADVANCED SEDIMENTATION. 3 sem. hrs. Mr. Sidwell
632. THESIS.

**GOVERNMENT**

J. W. JACKSON, ACTING HEAD

*First Term***For Undergraduates**

230. AMERICAN GOVERNMENT, ORGANIZATION. 3 sem. hrs. Mr. Jackson, Mr. Fuller
231. AMERICAN GOVERNMENT, FUNCTIONS. 3 sem. hrs. Mr. Dauley, Mr. Mack
232. MODERN GOVERNMENTS. 3 sem. hrs. Mr. Fuller
- For Undergraduates and Graduates**
331. LOCAL GOVERNMENT. 3 sem. hrs. Mr. Dauley
336. AMERICAN DIPLOMACY. 3 sem. hrs. Mr. Mack
337. PUBLIC ADMINISTRATION, PROCEDURE. 3 sem. hrs. Mr. Jackson
- For Graduates**
531. SEMINAR IN AMERICAN GOVERNMENT AND POLITICS. 3 sem. hrs. Mr. Jackson
535. SEMINAR IN INTERNATIONAL RELATIONS. 3 sem. hrs. Mr. Fuller
- 631-2. THESIS. Staff

*Second Term*

J. W. DAVIS, HEAD

**For Undergraduates**

230. AMERICAN GOVERNMENT, ORGANIZATION. 3 sem. hrs. Mr. Davis, Mr. Abernethy
231. AMERICAN GOVERNMENT, FUNCTIONS. 3 sem. hrs. Mr. Adams, Mr. Oden
- For Undergraduates and Graduates**
334. AMERICAN POLITICAL PARTIES. 3 sem. hrs. Mr. Oden
339. GOVERNMENT AND BUSINESS. 3 sem. hrs. Mr. Abernethy
435. INTERNATIONAL ORGANIZATION. 3 sem. hrs. Mr. Adams

**For Graduates**

532. SEMINAR IN POLITICAL THEORY. 3 sem. hrs. Mr. Davis  
534. SEMINAR IN PUBLIC LAW. 3 sem. hrs. Mr. Davis  
631-2. THESIS. Mr. Davis

**HISTORY, ANTHROPOLOGY, and SOCIOLOGY**

W. C. HOLDEN, HEAD

*First Term***HISTORY****For Undergraduates**

131. HISTORY OF CIVILIZATION. 3 sem. hrs. Staff  
330. TEACHING HISTORY IN THE HIGH SCHOOLS. 3 sem. hrs. Mr. Eaves

**For Undergraduates and Graduates**

3314. EUROPE SINCE 1919. 3 sem. hrs. Mr. Eaves  
3316. BRITISH EMPIRE. 3 sem. hrs. Mr. Kinchen  
437. THE JACKSONIAN PERIOD. 3 sem. hrs. Mr. Rister  
438. HISTORY OF TEXAS TO 1846. 3 sem. hrs. Mr. Wallace

**For Graduates**

530. SEMINAR IN SOUTHWESTERN HISTORY. 3 sem. hrs. Mr. Rister  
631. MASTER'S THESIS. 3 sem. hrs. Staff

**ANTHROPOLOGY****For Undergraduates**

231. THE NATURE OF MAN. 3 sem. hrs. Mr. Holden

**SOCIOLOGY****For Undergraduates**

233. CURRENT SOCIAL PROBLEMS. 3 sem. hrs. Mr. Moore

**For Undergraduates and Graduates**

338. THE SOCIOLOGY OF THE PERSON. 3 sem. hrs. Mr. Moore  
439. CONTEMPORARY SOCIOLOGICAL THEORY. 3 sem. hrs. Mr. Kinchen

*Second Term***HISTORY****For Undergraduates**

132. HISTORY OF CIVILIZATION. 3 sem. hrs. Staff  
333. RENAISSANCE AND REFORMATION. 3 sem. hrs. Mr. Pearce

**For Undergraduates and Graduates**

4317. HISTORY OF THE UNITED STATES SINCE 1933. 3 sem. hrs. Mr. McKay  
4321. RECENT HISTORY OF TEXAS. 3 sem. hrs. Mr. McKay  
**For Graduates**  
632. MASTER'S THESIS. 3 sem. hrs. Staff

**ANTHROPOLOGY****For Undergraduates and Graduates**

- 433-4. SOUTHWESTERN ARCHAEOLOGY. 6 sem. hrs. A field course; excavation near Ruidoso, New Mexico. Mr. Holden

**SOCIOLOGY****For Undergraduates**

230. INTRODUCTION TO SOCIOLOGY. 3 sem. hrs. Miss Smith  
**For Undergraduates and Graduates**  
3311. POPULATION PROBLEMS. 3 sem. hrs. Miss Smith

**HOME ECONOMICS EDUCATION**

MRS. VIVIAN ADAMS, HEAD

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

431. METHODS OF TEACHING HOME ECONOMICS. 3 sem. hrs. Mrs. Adams

**For Graduates**

536. PROBLEMS. 3 sem. hrs. Mrs. Adams  
631-2. THESIS. 3 sem. hrs. Mrs. Adams

*Second Term*

MISS DORIS NESBITT, ACTING HEAD

**For Undergraduates**

331. PRINCIPLES OF TEACHING HOME ECONOMICS. 3 sem. hrs. Miss Nesbitt

**For Undergraduates and Graduates**

434. METHODS OF TEACHING APPLIED ARTS IN HOMEMAKING. 3 sem. hrs. Miss Poindexter  
435. METHODS OF ADULT LEADERSHIP. 3 sem. hrs. Miss Graves  
**For Graduates**

532. THE DEVELOPMENT OF THE HOMEMAKING PROGRAM. 3 sem.  
hrs. Miss Nesbitt  
631-2. THESIS. Miss Nesbitt

### HOME MANAGEMENT

MISS MARGARET W. WEEKS, HEAD

#### *First Term*

##### **For Undergraduates**

432. RESIDENCE HOME MANAGEMENT HOUSE. 3 sem. hrs. Miss Drew  
**For Undergraduates and Graduates**  
433. HOUSEHOLD EQUIPMENT. 3 sem. hrs. Miss Drew

#### *Second Term*

##### **For Undergraduates**

332. GENERAL HOME MANAGEMENT. 3 sem. hrs. Miss Drew  
432. RESIDENCE HOME MANAGEMENT HOUSE. 3 sem. hrs. Miss Drew

### INDUSTRIAL ENGINEERING and ENGINEERING DRAWING

WILLIAM L. JENKINS, ACTING HEAD

#### *First Term*

##### ENGINEERING DRAWING

##### **For Undergraduates**

111. ENGINEERING DRAWING. 1 sem. hr., 9 lab. hrs. Mr. Jenkins  
121. ENGINEERING DRAWING. 2 sem. hrs., 18 lab. hrs. Mr. Jenkins  
131. ENGINEERING DRAWING. 3 sem. hrs., 3 lec. hrs., 18 lab. hrs.  
Mr. Jenkins  
221. MACHINE DRAWING. 2 sem. hrs., 18 lab. hrs. Mr. Jenkins

#### *Second Term*

MRS. MARGARET B. ATKINSON, ACTING HEAD

##### ENGINEERING DRAWING

##### **For Undergraduates**

121. ENGINEERING DRAWING. 2 sem. hrs., 18 lab. hrs. Mrs. Atkinson  
131. ENGINEERING DRAWING. 3 sem. hrs., 3 lec. hrs., 18 lab. hrs.  
Mrs. Atkinson  
221. MACHINE DRAWING. 2 sem. hrs., 18 lab. hrs. Mrs. Atkinson

## JOURNALISM

J. RUSSELL HEITMAN, HEAD

### *First Term*

#### **For Undergraduates**

- 335. HISTORY OF JOURNALISM. 3 sem. hrs. Mr. Nelson
- \*336. ADVANCED REPORTING. 3 sem. hrs. Mr. Nelson
- \*337. ADVANCED REPORTING. 3 sem. hrs. Mr. Nelson
- \*338. NEWS EDITING. 3 sem. hrs. Mr. Nelson
- \*339. NEWS EDITING. 3 sem. hrs. Mr. Nelson

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

- 430. PRINCIPLES OF JOURNALISM. 3 sem. hrs. Mr. Heitman

### *Second Term*

MRS. LOUISE C. ALLEN, ACTING HEAD

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

- 331. SPECIAL FEATURE ARTICLES. 3 sem. hrs. Mrs. Allen
- 432. HIGH SCHOOL PUBLICATIONS. 3 sem. hrs. Mr. Nelson
- 434. EDITORIAL WRITING. 3 sem. hrs. Mrs. Allen

\*The work in Journalism 336, 337, 338, or 339 extends through both terms of a summer session. To obtain three hours credit in any one of these courses, the student must attend both terms of the summer session, but will be required to register and pay for only one three-hour course.

## MANAGEMENT

F. L. MIZE, HEAD

### *First Term*

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

- 334. PERSONNEL ADMINISTRATION. 3 sem. hrs. Mr. Fox
- 433. LABOR RELATIONS. 3 sem. hrs. Mr. Fox
- 435. EMPLOYEE SUPERVISION. 3 sem. hrs. Mr. Mize
- 439. PERSONNEL TESTS AND RATING SCALES. 3 sem. hrs. Mr. Mize

### *Second Term*

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

- 333. LABOR PROBLEMS. 3 sem. hrs. Mr. Fox
- 335. PURCHASING, STORES, AND INVENTORY CONTROL. 3 sem. hrs.  
Mr. Mize

432. PERSONNEL PROBLEMS. 3 sem. hrs. Mr. Fox  
**For Graduates**  
 531. RESEARCH IN MANAGEMENT.... 3 sem. hrs. Mr. Mize

## MARKETING

GEORGE HEATHER, ACTING HEAD

### *First Term*

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

332. PRINCIPLES OF MARKETING. 3 sem. hrs. Mr. Golden  
 336. INTRODUCTION TO BUSINESS STATISTICS. 3 sem. hrs. Mr. Golden  
**For Graduates**  
 631-2. MASTER'S THESIS. 6 sem. hrs. Staff

### *Second Term*

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

332. PRINCIPLES OF MARKETING. 3 sem. hrs. Mr. Golden  
 336. INTRODUCTION TO BUSINESS STATISTICS. 3 sem. hrs. Mr. Golden  
**For Graduates**  
 631-2. MASTER'S THESIS. 6 sem. hrs. Staff

## MATHEMATICS and ASTRONOMY

E. A. HAZLEWOOD, HEAD

### *First Term*

#### **For Undergraduates**

111. SURVEY OF ASTRONOMY. 1 sem. hr. Mr. Underwood  
 121. ALGEBRA. 2 sem. hrs. Mrs. Roberts  
 122. ALGEBRA. 2 sem. hrs. Mr. Underwood  
 130. ALGEBRA. 3 sem. hrs. Mrs. Holland  
 131. TRIGONOMETRY. 3 sem. hrs. Staff  
 132. ANALYTICAL GEOMETRY. 3 sem. hrs. Mrs. Rowland  
 137. COMMERCIAL ALGEBRA. 3 sem. hrs. Staff  
 138. MATHEMATICS OF FINANCE. 3 sem. hrs. Miss May  
 231. DIFFERENTIAL CALCULUS. 3 sem. hrs. Mr. Hazlewood  
 (Engineering students should take 231-2 in lieu of 251.)  
 232. INTEGRAL CALCULUS. 3 sem. hrs. Mrs. Rowland

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

321. DIFFERENTIAL EQUATIONS. 2 sem. hrs. Mr. Fuller  
 331. CALCULUS APPLICATIONS. 3 sem. hrs. Mrs. Roberts  
 332. DIFFERENTIAL EQUATIONS. 3 sem. hrs. Staff

431. TEACHING OF SECONDARY MATHEMATICS. 3 sem. hrs. Mrs. Holland
434. ADVANCED CALCULUS. 3 sem. hrs. Mr. Hazlewood
437. THEORY OF NUMBERS. 3 sem. hrs. Mr. Underwood
- For Graduates**
533. ADVANCED TOPICS IN ANALYSIS. 3 sem. hrs. Mr. Fuller
535. ANALYTICAL PROJECTIVE GEOMETRY. 3 sem. hrs. Miss May
- 631-2. THESIS. Staff

### *Second Term*

BOB PARKER, ACTING HEAD

#### **For Undergraduates**

122. ALGEBRA. 2 sem. hrs. Mr. Parker
131. TRIGONOMETRY. 3 sem. hrs. Miss McGlothlin
132. ANALYTIC GEOMETRY. 3 sem. hrs. Mr. Sparks
138. MATHEMATICS OF FINANCE. 3 sem. hrs. Miss McGlothlin
232. INTEGRAL CALCULUS. 3 sem. hrs. Mr. Heineman

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

331. APPLICATIONS OF CALCULUS. 3 sem. hrs. Mr. Woodward
337. HIGHER GEOMETRY. 3 sem. hrs. Mr. Heineman  
(Primarily for teachers of high school geometry.)
433. THEORY OF EQUATIONS. 3 sem. hrs. Mr. Woodward
435. ADVANCED CALCULUS. 3 sem. hrs. Mr. Sparks

#### **For Graduates**

534. SYNTHETIC PROJECTIVE GEOMETRY. 3 sem. hrs. Mr. Parker
- 631-2. THESIS. Staff

## MECHANICAL ENGINEERING

HARRY F. GODEKE, HEAD

### *First Term*

#### **For Undergraduates**

221. ENGINEERING PROBLEMS. 2 sem. hrs., 3 lec. hrs., 6 lab. hrs.  
Mr. McDonald
311. PATTERN SHOP. 1 sem. hr., 9 lab. hrs. Mr. Hardgrave
312. FOUNDRY PRACTICE. 1 sem. hr., 9 lab. hrs. Mr. Hardgrave
313. MACHINE SHOP. 1 sem. hr., 9 lab. hrs. Mr. Hardgrave
317. HEAT ENGINEERING LAB. 2 sections, 1 sem. hr., 9 lab. hrs. Mr. Helmers
334. ELEMENTARY THERMODYNAMICS. 2 sections, 3 sem. hrs. Mr. Monasch

337. METALLURGY. 3 sem. hrs. Mr. McDonald  
 341. STEAM POWER PLANT ENGINEERING. 4 sem. hrs. Mr. Newell  
 431. POWER PLANT LABORATORY. 3 sem. hrs., 18 lab. hrs. Mr. Martin  
**For Undergraduates and Graduates**  
 330. THERMODYNAMICS. 3 sem. hrs. Mr. Godeke  
 432. INTERNAL COMBUSTION ENGINES. 2 sem. hrs. Mr. Newell  
 438. HEATING VENTILATION AND AIR CONDITIONING. 3 sem. hrs.  
 Mr. Godeke

### *Second Term*

LOUIS J. POWERS, ACTING HEAD

#### **For Undergraduates**

314. MACHINE SHOP. 1 sem. hr., 9 lab. hrs. Mr. Hardgrave  
 315. HEAT TREATMENT OF STEEL. 1 sem. hr., 9 lab. hrs. Mr.  
 Hardgrave  
 316. WELDING PRACTICE. 1 sem. hr., 9 lab. hrs. Mr. Hardgrave  
 318. HEAT ENGINEERING LAB. 1 sem. hr., 9 lab. hrs., 2 sections.  
 Mr. Martin  
 322. ELEMENTARY MACHINE DESIGN. 2 sem. hrs. Mr. Powers  
 335. HEAT ENGINES. 3 sem. hrs. 2 sections. Mr. Powell

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

331. THERMODYNAMICS. 3 sem. hrs. Mr. Powers  
 424. INTERNAL COMBUSTION ENGINES. 2 sem. hrs. Mr. Williams  
 439. HEATING, VENTILATION AND AIR CONDITIONING. 3 sem. hrs.  
 Mr. Williams

### MUSIC

G. L. HEMMLE, HEAD

#### *First Term*

#### APPLIED MUSIC

#### **For Undergraduates**

#### *Class Instruction*

- 113, 114. PERCUSSION. 1 sem. hr. each, 5 lec. hrs. each, 7 prac. hrs.  
 each. Staff  
 117-2. PIANO. 1 sem. hr., 5 lec. hrs., 7 prac. hrs. Staff  
 213, 214. STRINGS. 1 sem. hr. each, 5 lec. hrs. each, 7 prac. hrs. each.  
 313, 314. BRASS. 1 sem. hr. each, 5 lec. hrs. each, 7 prac. hrs. each.  
 Staff  
 325, 326. BAND. 2 sem. hrs. each, 5 lab. hrs. each. Mr. Wiley

- 413, 414. WOODWINDS. 1 sem. hr. each, 5 lec. hrs. each, 7 prac. hrs. each. Staff
- 425, 426. BAND. 2 sem. hrs. each, 5 lab. hrs. each. Mr. Wiley  
*Private Instruction* (For assignment to instructor, see Head, Department of Music.)
- 115, 116, 215, 216. APPLIED MUSIC. Voice, piano, organ, wind or string instruments. 1 sem. hr. each,  $\frac{1}{2}$  lec. hr. each,  $7\frac{1}{2}$  prac. hrs. each. Staff
- 125, 126. APPLIED MUSIC. Voice, piano, organ, wind or string instruments. 2 sem. hrs. each, 1 lec. hr. each, 15 prac. hrs. each. (Sophomore and junior courses offered in sequence.) Staff
- For Undergraduates and Graduates**
- 425, 426, 4215, 4216. APPLIED MUSIC. Voice, piano, organ, wind or string instruments. 2 sem. hrs. each, 15 prac. hrs. each. Staff

### MUSIC EDUCATION

#### For Undergraduates

231. FUNDAMENTALS OF MUSIC FOR ELEMENTARY CLASSROOM TEACHERS. 3 sem. hrs. Mr. Elliott
327. CHORAL METHODS AND TECHNIQUES. 2 sem. hrs. Mr. Hemmle
328. INSTRUMENTAL CONDUCTING. 2 sem. hrs. Mr. Wiley
337. ELEMENTARY SCHOOL TEACHING AND SUPERVISION OF MUSIC. 3 sem. hrs. Mr. Elliott
- 421, 422. BAND CONDUCTING AND METHODS. 2 sem. hrs. each. Mr. Wiley
- 431, 432. STRINGS. 3 sem. hrs. each,  $7\frac{1}{2}$  lec. hrs. each, 7 prac. hrs. each. Staff

#### For Graduates

521. INSTRUMENTAL CONDUCTING. 2 sem. hrs. Mr. Wiley
530. SEMINAR IN MUSIC EDUCATION. 3 sem. hrs. Mr. Hemmle

### THEORY

#### For Undergraduates and Graduates

424. PEDAGOGY OF THEORY. 2 sem. hrs. Staff
427. BAND INSTRUMENTATION. 2 sem. hrs. Staff

### ENSEMBLE

#### For Undergraduates

010. CHORUS. 1 sem. hr., 5 lab. hrs. Mr. Hemmle
013. BAND. 1 sem. hr., 5 lab. hrs. Mr. Wiley

*Second Term***APPLIED MUSIC****For Undergraduates**

- 115, 116, 215, 216. **APPLIED MUSIC.** Voice, piano, organ, or string instruments. 1 sem. hr. each, 7 prac. hrs. each. Staff
- 125, 126. **APPLIED MUSIC.** Voice, piano, organ, or string instruments. 2 sem. hrs. each. (Sophomore and junior courses offered in sequence.) Staff

**For Undergraduates and Graduates**

- 425, 426, 4215, 4216. **APPLIED MUSIC.** Voice, piano, organ, or string instruments. 2 sem. hrs. each, 15 prac. hrs. each. Staff

**MUSIC EDUCATION****For Undergraduates**

232. **ELEMENTARY MUSIC PRINCIPLES, PRACTICES, AND MATERIALS.** 3 sem. hrs. Mr. Hemmle
338. **SECONDARY SCHOOL TEACHING AND SUPERVISION OF MUSIC.** 3 sem. hrs. Mr. Elliott

**For Graduates**

531. **SEMINAR IN MUSIC EDUCATION.** 3 sem. hrs. Mr. Hemmle

**MUSIC LITERATURE****For Undergraduates and Graduates**

432. **HISTORY OF MUSIC.** 3 sem. hrs. Mr. Elliott

**PETROLEUM ENGINEERING**

WILLIAM L. DUCKER, HEAD

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

331. **PETROLEUM DEVELOPMENT METHODS.** 3 sem. hrs. Mr. Johnson
410. **SEMINAR.** 1 sem. hr. Mr. Ducker

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

333. **PETROLEUM PRODUCTION METHODS.** 3 sem. hrs. Mr. Johnson
411. **SEMINAR.** 1 sem. hr. Mr. Ducker

## PHYSICAL EDUCATION

R. W. KIREILIS, HEAD

*First Term*

## PHYSICAL EDUCATION FOR MEN

**For Undergraduates**

012. BEGINNING SWIMMING. 1 sem. hr. Mr. Kireilis  
017. GOLF. 1 sem. hr. Mr. Philbrick  
0120. TENNIS. 1 sem. hr. Mr. Philbrick  
323. SPORTS OFFICIATING. 2 sem. hrs. Mr. Philbrick  
3311. METHODS OF TEACHING PHYSICAL EDUCATION IN HIGH SCHOOLS.  
3 sem. hrs. Mr. Jennings and Mr. Robison  
431. THEORY OF COACHING. 3 sem. hrs. Mr. Jennings and Mr.  
Robison

## PHYSICAL EDUCATION FOR MEN AND WOMEN

**For Undergraduates**

230. METHODS OF TEACHING HEALTH EDUCATION. 3 sem. hrs.  
Miss Rainey.  
3316. CURRICULUM CONSTRUCTION IN PHYSICAL EDUCATION (Elem.  
Sch.). 3 sem. hrs. Mr. Philbrick

**For Undergraduates and Graduates**

435. MODERN TRENDS IN HEALTH, PHYSICAL EDUCATION AND REC-  
REATION. 3 sem. hrs. Mr. Kireilis

**For Graduates**

534. ADMINISTRATION AND ORGANIZATION OF SCHOOL HEALTH PRO-  
GRAM. 3 sem. hrs. Mr. Kireilis

## PHYSICAL EDUCATION FOR WOMEN

**For Undergraduates**

212. TENNIS. 1 sem. hr. Miss Rainey  
2115. BADMINTON. 1 sem. hr. Miss Rainey

*Second Term*

## PHYSICAL EDUCATION FOR MEN

**For Undergraduates**

012. BEGINNING SWIMMING. 1 sem. hr. Mr. Kireilis  
017. GOLF. 1 sem. hr. Mr. Philbrick  
0120. TENNIS. 1 sem. hr. Mr. Philbrick  
432. THEORY OF COACHING. 3 sem. hrs. Mr. Jennings and Mr.  
Robison

**For Undergraduates and Graduates**

423. ORGANIZATION AND ADMINISTRATION OF INTERSCHOLASTIC ATHLETICS. 2 sem. hrs. Mr. Jennings and Mr. Robison
425. THE ORGANIZATION AND ADMINISTRATION OF INTRAMURAL SPORTS. 2 sem. hrs. Mr. Philbrick

**PHYSICAL EDUCATION FOR MEN AND WOMEN****For Undergraduates**

3316. HEALTH EXAMINATIONS IN THE ELEMENTARY SCHOOLS. 3 sem. hrs. Mr. Philbrick

**For Undergraduates and Graduates**

438. CURRICULUM CONSTRUCTION IN PHYSICAL EDUCATION. 3 sem. hrs. Mr. Kireilis

**For Graduates**

532. SUPERVISION OF PHYSICAL EDUCATION. 3 sem. hrs. Mr. Kireilis

**PHYSICAL EDUCATION FOR WOMEN****For Undergraduates**

2110. ARCHERY. 1 sem. hr. Mrs. Richards
218. VOLLEY BALL. 1 sem. hr. Mrs. Richards
233. METHODS IN PHYSICAL EDUCATION FOR THE ELEMENTARY SCHOOL. 3 sem. hrs. Mrs. Richards

**PHYSICS**

C. C. SCHMIDT, HEAD

*First Term***For Undergraduates**

131. ELEMENTS OF COLLEGE PHYSICS. 3 sem. hrs., 9 lec. hrs., 6 lab. hrs. Mr. Schmidt
141. GENERAL PHYSICS. 4 sem. hrs., 12 lec. hrs., 6 lab. hrs. Mr. Gott
215. PHYSICAL MEASUREMENTS. 1 sem. hr., 9 lab. hrs. Mr. Schmidt
216. PHYSICAL MEASUREMENTS. 1 sem. hr., 9 lab. hrs. Mr. Matthews
235. ENGINEERING PHYSICS. 3 sem. hrs., 9 lec. hrs. Mr. Matthews
236. ENGINEERING PHYSICS. 3 sem. hrs., 9 lec. hrs. Mr. Matthews

**For Undergraduates and Graduates**

337. INTRODUCTION TO MODERN PHYSICS. 3 sem. hrs., 9 lec. hrs. Mr. Gott
431. TEACHING HIGH SCHOOL PHYSICS. 3 sem. hrs., 9 lec. hrs. Mr. Schmidt

**For Graduates**

631. THESIS. Staff

*Second Term***For Undergraduates**

132. ELEMENTS OF COLLEGE PHYSICS. 3 sem. hrs., 9 lec. hrs., 6 lab. hrs. Mr. Steffy
142. GENERAL PHYSICS. 4 sem. hrs., 12 lec. hrs., 6 lab. hrs. Mr. Steffy
216. PHYSICAL MEASUREMENTS. 1 sem. hr., 9 lab. hrs. Mr. Glaser
236. ENGINEERING PHYSICS. 3 sem. hrs., 9 lec. hrs. Mr. Glaser
- For Undergraduates and Graduates**
338. INTRODUCTION TO MODERN PHYSICS. 3 sem. hrs., 9 lec. hrs. Mr. Glaser

**For Graduates**

632. THESIS. Staff

## PLANT INDUSTRY

A. W. YOUNG, HEAD

*First Term*

## AGRICULTURAL ENGINEERING

**For Undergraduates**

321. FARM SHOP. 2 sem. hrs., 3 lec. hrs., 9 lab. hrs. Mr. Sullivan

**For Undergraduates and Graduates**

411. SOIL MANAGEMENT LABORATORY. 1 sem. hr., 9 lab. hrs. Mr. Sullivan
431. FARM BUILDINGS. 3 sem. hrs., 6 lec. hrs., 9 lab. hrs. Mr. Sullivan

## AGRONOMY

**For Undergraduates**

331. FORAGE AND PASTURE CROPS. 3 sem. hrs., 6 lec. hrs., 9 lab. hrs. Mr. Ayers

**For Undergraduates and Graduates**

422. SOIL MANAGEMENT. 2 sem. hrs. Mr. Young
441. PLANT PRODUCTION. 4 sem. hrs., 9 lec. hrs., 9 lab. hrs. Mr. Morrow

**For Graduates**

- 512-3-4. AGRONOMY SEMINAR. 1 sem. hr. each. Staff
- 531-2-3. AGRONOMY PROBLEMS. 3 sem. hrs. each. Staff
- 631-2. THESIS. Staff

## HORTICULTURE

**For Undergraduates**

131. PRINCIPLES OF HORTICULTURE AND PLANT PROPAGATION. 3 sem. hrs., 6 lec. hrs., 9 lab. hrs. Mr. Yocum

231. VEGETABLE GARDENING. 3 sem. hrs., 6 lec. hrs., 9 lab. hrs.  
Mr. Yocum

**For Graduates**

- 512-3-4. GRADUATE SEMINAR. 1 sem. hr. each. Staff  
531-2-3. HORTICULTURE PROBLEMS. 3 sem. hrs. each. Staff  
631-2. THESIS. Staff.

**PLANT INDUSTRY**

**For Undergraduates**

331. PLANT INSECTS AND DISEASES AND THEIR CONTROL. 3 sem. hrs.  
Mr. Morrow  
341. PRINCIPLES OF GENETICS. 4 sem. hrs., 9 lec. hrs., 9 lab. hrs.  
Mr. Ayers

**For Graduates**

535. RESEARCH METHODS. 3 sem. hrs. Mr. Young

*Second Term*

**AGRICULTURAL ENGINEERING**

**For Undergraduates**

322. FARM SHOP. 2 sem. hrs., 3 lec. hrs., 9 lab. hrs. Mr. Sullivan  
323. FARM MACHINERY. 2 sem. hrs., 3 lec. hrs., 9 lab. hrs.  
Mr. Sullivan

**AGRONOMY**

**For Undergraduates**

131. THE FUNDAMENTALS OF CROP PRODUCTION. 3 sem. hrs., 6 lec.  
hrs., 9 lab. hrs. Mr. Peterson  
221. SOILS. 2 sem. hrs. Mr. Peterson

**For Graduates**

- 512-3-4. AGRONOMY SEMINAR. 1 sem. hr. each. Staff  
531-2-3. AGRONOMY PROBLEMS. 3 sem. hrs. each. Staff  
631-2. THESIS. Staff

**HORTICULTURE**

**For Graduates**

- 512-3-4. HORTICULTURE SEMINAR. 1 sem. hr. each. Staff  
531-2-3. HORTICULTURE PROBLEMS. 3 sem. hrs. each. Staff  
631-2. THESIS. Staff

## PSYCHOLOGY

LEHMAN C. HUTCHINS, HEAD

*First Term***For Undergraduates**

230. INTRODUCTION TO PSYCHOLOGY. 3 sem. hrs. Mr. Richards  
**For Undergraduates and Graduates**

331. CHILD PSYCHOLOGY. 3 sem. hrs. Miss True  
333. STATISTICAL METHODS. 3 sem. hrs. Mr. Richards  
335. ADOLESCENT PSYCHOLOGY. 3 sem. hrs. Staff  
431. TESTS AND MEASUREMENTS. 3 sem. hrs. Mr. Barnett  
433. MENTAL HYGIENE. 3 sem. hrs. Miss True  
435. ABNORMAL PSYCHOLOGY. 3 sem. hrs. Mr. Hutchins  
436. PERSONALITY DEVELOPMENT. 3 sem. hrs. Mr. Hutchins

**For Graduates**

532. PROBLEMS IN PSYCHOLOGY. 3 sem. hrs. Staff  
631-2. THESIS. Staff

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

333. STATISTICAL METHODS. 3 sem. hrs. Mr. Barnett  
431. TESTS AND MEASUREMENTS. 3 sem. hrs. Mr. Barnett  
4310. METHODS IN CLINICAL PSYCHOLOGY. 3 sem. hrs. Mr. Hutchins

**For Graduates**

530. ADVANCED EDUCATIONAL PSYCHOLOGY. 3 sem. hrs. Mr. Hutchins  
631-2. THESIS. 3 sem. hrs. Staff

## SPEECH

P. MERVILLE LARSON, HEAD

*First Term***For Undergraduates**

218. FORENSIC ACTIVITIES. 1 sem. hr. Staff  
219. THEATER ACTIVITIES. 1 sem. hr. Staff  
232. PLAY PRODUCTION. 3 sem. hrs. Staff  
233. VOICE AND DICTION. 3 sem. hrs. Staff  
318. FORENSIC ACTIVITIES. 1 sem. hr. Staff  
319. THEATER ACTIVITIES. 1 sem. hr. Staff  
338-1. BUSINESS AND PROFESSIONAL SPEAKING. 3 sem. hrs. Staff  
338-2. BUSINESS AND PROFESSIONAL SPEAKING. 3 sem. hrs. Staff

**For Undergraduates and Graduates**

4318. (Formerly 432) SPEECH CORRECTION METHODS. 3 sem. hrs.  
(May also be taken as Education 4318) Miss Lindell
4320. SUPERVISED CLINICAL PRACTICE IN SPEECH CORRECTION. 3 sem.  
hrs. (May also be taken as 4220 for 2 sem. hrs. credit) (May  
also be taken as Education 4320 or 4220.) Miss Lindell and  
Cerebral Palsy Treatment Center Staff

**For Graduates**

531. STUDIES IN SPEECH THERAPY. 3 sem. hrs. Staff
533. RESEARCH STUDIES IN SPEECH. 3 sem. hrs. Staff
- 631-2. THESIS. Staff

*Second Term***For Undergraduates**

131. FUNDAMENTALS OF SPEECH. 3 sem. hrs. Staff
218. FORENSIC ACTIVITIES. 1 sem. hr. Staff
219. THEATER ACTIVITIES. 1 sem. hr. Staff
2350. DISCUSSION METHODS IN A DEMOCRACY. 3 sem. hrs. Mr. Larson
318. FORENSIC ACTIVITIES. 1 sem. hr. Staff
319. THEATER ACTIVITIES. 1 sem. hr. Staff
- 338-1. BUSINESS AND PROFESSIONAL SPEAKING. 3 sem. hrs. Staff
- 338-2. BUSINESS AND PROFESSIONAL SPEAKING. 3 sem. hrs. Staff

**For Undergraduates and Graduates**

4319. SPEECH CORRECTION METHODS. (Formerly 433) 3 sem. hrs.  
(May also be taken as Education 4319) Miss Lindell
4321. SUPERVISED CLINICAL PRACTICE IN SPEECH CORRECTION. 3 sem.  
hrs. (May also be taken as 4221 for 2 sem. hrs. credit. May  
also be taken as Education 4321 or 4221.) Miss Lindell and  
Cerebral Palsy Treatment Center Staff

**For Graduates**

531. STUDIES IN SPEECH THERAPY. 3 sem. hrs. Staff
533. RESEARCH STUDIES IN SPEECH. 3 sem. hrs. Staff
- 631-2. THESIS. Staff.

**TEXTILE ENGINEERING**

L. E. PARSONS, HEAD

*First Term***For Undergraduates**

234. COTTON CLASSING AND MARKETING. 3 sem. hrs., 6 lec. hrs., 9 lab.  
hrs. Mr. Parsons

*Second Term*

L. O. BUNTON, ACTING HEAD

## BIBLICAL LITERATURE

*First Term*

- \*131. SURVEY OF THE OLD TESTAMENT. 3 sem. hrs. Mr. Wolber
- \*223. BOOK OF ROMANS. 2 sem. hrs. Mr. Wolber

*Second Term*

- \*132. SURVEY OF THE NEW TESTAMENT. 3 sem. hrs. Mr. Wolber
  - \*224. BOOK OF HEBREWS. 2 sem. hrs. Mr. Wolber
- \*Sponsored and supported by the Baptist General Convention of Texas.

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