
BULLETIN
of
TEXAS TECHNOLOGICAL COLLEGE

VOL. XXV

FEBRUARY, 1949

NO. 1

SUMMER SESSION
1949

TEXAS TECHNOLOGICAL COLLEGE
LUBBOCK, TEXAS

Issued in February, April, June, August, October and December of each year by the Texas Technological College of Lubbock, Texas. Entered as second-class matter, Dec. 24, 1924 at the post office, at Lubbock, Texas, under the act of Aug. 24, 1912.



CALENDAR SUMMER SCHOOL 1949

First Term

- June 5 Sunday. Dormitories open at noon for room occupancy. Students are requested not to report for admission to rooms before 12 o'clock noon.
- June 6 Monday. Summer school begins. Registration for first term. Breakfast served as first meal in dormitories.
- June 7 Tuesday. Classes begin 7:40 A.M.
- June 8 Wednesday. Last day to register for first term. Late registration fee charge on this day
- June 9 Thursday. Last day to add a course for the first term.
- June 16 Thursday. Last day in which student may petition to drop a course without grade penalty.
- July 4 Monday. American Independence Day. A holiday.
- July 5 Tuesday. Classes resume, 7:40 A.M.
- July 15, 16 Friday and Saturday. Final examinations for first term.
- July 16 Saturday. First term ends.

Second Term

- July 18 Monday. Registration for second term.
- July 19 Tuesday. Classes begin 7:40 A.M.
- July 20 Wednesday. Last day to register for second term. Late registration fee charged on this day.
- July 21 Thursday. Last day to add a course for second term.
- July 28 Thursday. Last day for a student to petition to drop a course without grade penalty.
- August 23 Tuesday. Last day for submitting completed copies of masters' theses.
- August 25, 26 Thursday and Friday. Final examinations for second term.
- August 26 Friday. Second term ends. Summer school closes. Commencement 8 P. M.

BOARD OF DIRECTORS

Charles C. Thompson, Chairman Colorado City
Term Expires 1951

Mark McGee, Vice Chairman Fort Worth
Term Expires 1951

Chanslor E. Weymouth, Treasurer Amarillo
Term Expires 1953

Leon Ince Houston
Term Expires 1953

A. G. (Pat) Mayse Paris
Term Expires 1951

Robert B. Price El Paso
Term Expires 1949

O. B. Ratliff Lubbock
Term Expires 1949

Kyle Spiller Jacksboro
Term Expires 1949

Charles W. Wooldridge Dallas
Term Expires 1953

W. T. Gaston, Secretary Lubbock

OFFICERS OF ADMINISTRATION

COLLEGE YEAR 1948-49

- DOSSIE MARION WIGGINS, B.A., M.A., Ph.D., L.L.D. President
Office, 217 Administration Building
- CLIFFORD BARTLETT JONES, L.L.D. President Emeritus
- EDWARD NEWLON JONES, B.S., Ph.D., L.L.D. Vice President
Office, 217 Administration Building
- FRANK JUNELL, B.A., M.A. Assistant to the President
Office, 217 Administration Building
- WILLIAM CURRY HOLDEN, B.A., M.A., Ph.D.
Dean of Graduate Studies and Curator of West Texas Museum
Office, 209 Administration Building
- OTTO VINCENT ADAMS, B.S. in C. and I. E., M.S.E., Sc.D.
Dean of Engineering
Office, 202 Engineering Building
- ROBERT CABANISS GOODWIN, B.A., M.A., Ph.D.
Dean of Arts and Sciences
Office, 211 Administration Building
- ERNEST WALLACE, B.S., M.A., Ph.D.
Assistant Dean of Arts and Sciences
Office, 211 Administration Building
- WENZEL LOUIS STANGEL, B.S., M.S. Dean of Agriculture
Office, 201A Agriculture Building
- HASKELL GRANT TAYLOR, B.B.A., M.A.
Acting Dean of Business Administration
Office, 219 Administration Building
- MARGARET WATSON WEEKS, B.S., M.S. Dean of Home Economics
Office, 104 Home Economics Building
- JAMES GEORGE ALLEN, B.A., M.A. Dean of Men
Office, 114 Administration Building
- LEWIS NORTON JONES, B.S., M.A. Assistant Dean of Men
Office, 109 Administration Building
- MARGARETTE WIBLE WALKER, B.M., B.M.E. Dean of Women
Office, 107 Administration Building
- JUNE LAVERNE HANSON, B.S. in Ed., M.A. Assistant Dean of Women
Office, 107 Administration Building
- WILLIAM THOMAS GASTON
Business Manager and Secretary of Board of Directors
Office, 102 Administration Building
- MOZELLE EUGENIA CRADDOCK, B.S., M.A.
Director of the Dormitory Systems
Dormitory Administration Building
- WARREN PERRY CLEMENT, B.A., M.A.
Registrar and Director of Admissions
Office, 112 Administration Building
- FLORENCE EVELYN CLEWELL, B.A. Assistant Registrar
Office, 112 Administration Building
- LULU STINE, B.A., M.A. Acting Librarian
Office, 205 Library Building
- JACOB HOMER MILLIKIN, B.A., M.A. Director of Extension
Office, 106 Extension Building
- LUDLOW CALHOUN ADAMS, B.S., Lieutenant Colonel, Corps of Engineers, United States Army. Professor and Head of Military Science and Tactics. Office 1, Military Science Building.

THE FACULTY

- BYRON ROBERT ABERNETHY, B.A., M.A., Ph.D., *Associate Professor of Government.*
- VIVIAN JOHNSON ADAMS, B.S., M.S., *Professor and Head, Department of Home Economics Education.*
- BEATRICE WITTE ALEXANDER, B.A., M.A., *Instructor in Foreign Languages.*
- THEODORE WALTER ALEXANDER, B.S., M.S., *Instructor in Geology and Foreign Languages.*
- FERN ELAINE ALFREY, B.S., *Instructor in Secretarial Administration.*
- LOUISE CRAWFORD ALLEN, B.A., M. A., *Assistant Professor of Journalism.*
- STANLEY E. ANDERSON, B.S., *Assistant Professor of Animal Husbandry.*
- MARGARET BRASHEARS ATKINSON, B.S., *Assistant Professor of Engineering Drawing.*
- ALBERT BARNETT, B.S., M.A., Ph.D., *Professor of Education and Psychology.*
- ROY BYRN BASS, A.B., LL.B., *Part-Time Instructor in Accounting and Finance.*
- JOHN HENRY BAUMGARDNER, B.S., M.S., *Assistant Professor of Animal Husbandry.*
- ETHEL JANE BEITLER, B.S., M.Ed., *Part-Time Assistant Professor of Applied Arts.*
- JAMES WAYLAND BENNETT, B.S., *Assistant Professor of Agricultural Economics.*
- LOTUS BERRY BLACKWELL, B.A., *Instructor in Marketing.*
- JULIEN PAUL BLITZ, D. Mus., *Professor and Head, Department of Music.*
- WELDON LEROY BRADSHAW, B.S., *Part-Time Professor of Architecture.*
- JOHN P. BRAND, A.B., M.A., *Lecturer in Geology.*
- JEWELL BROCK, B.S., M.S., *Instructor in Chemistry.*
- MATTIE LOU BRYANT, B.S., *Instructor in Chemistry.*
- CHARLES VICTOR BULLEN, B.S., M.S., *Professor and Head, Department of Electrical Engineering.*
- EARL BURNETT, B.S., *Assistant Professor of Plant Industry.*
- MARTHA WASHINGTON BUTTRILL, B.S., M.A., *Assistant Professor of Foods and Nutrition.*
- SANNIE CALLAN, B.S., M.A., *Professor and Head, Department of Child Development.*
- CHARLOTTE BALLOW CAMP, B.S., M.S., *Assistant Professor of Child Development.*
- EARL D. CAMP, B.S., M.S., *Assistant Professor of Biology.*
- TRUMAN WILDES CAMP, B.A., Ph.D., *Associate Professor and Chairman, Department of English.*

- MARVIN WARLICK CARR, B.A., LL.B., *Part-Time Instructor in Accounting and Finance.*
- OLGA MELOY CARTER, A.B., M.A., *Assistant Professor of English.*
- OWEN L. CASKEY, B.S., M.S., *Instructor in Education.*
- RAY LEON CHAPPELLE, B.S., M.S., *Professor and Head, Department of Agricultural Education.*
- VERNON THOMAS CLOVER, B.S., M.S., Ph.D., *Associate Professor of Economics and Management.*
- BILLIE COHEA, B.S., *Instructor in Chemistry.*
- LEWIS BRISCOE COOPER, B.S., M.A., Ph.D., *Associate Professor of Education and Psychology.*
- WILLIAM MOORE CRAIG, A.B., M.A., Ph.D., *Professor of Chemistry.*
- JAMES CECIL CROSS, A.B., MA., Ph.D., *Professor and Chairman, Department of Biology.*
- DEAN INGRAM DAULEY, B.A., M.A., *Instructor in Government.*
- JAMES WILLIAM DAVIS, B.A., M.A., Ph.D., *Professor and Head, Department of Government.*
- JAMES WENDELL DAY, B.A., M.A., *Assistant Professor of Physics.*
- CARL WILLIAM DENISON, JR., B.S., *Part-Time Instructor in Dairy Manufactures.*
- JOE DENNIS, B.A., M.A., Ph.D., *Professor of Chemistry.*
- ROBERT KENNEL DeWEESE, B.S., M.F.A., *Instructor in Architecture.*
- MARY WOODWARD DOAK, B.A., M.A., *Professor of English, and Dean of Women, Emerita.*
- ENCEL HUNTER DODGE, B.S., M.S., *Lecturer in Chemistry.*
- LOLA MARIE DREW, B.S., M.A., *Assistant Professor of Home Management.*
- CHARLES DUDLEY EAVES, B.A., M.A., Ph.D., *Professor of History.*
- LUTA PELHAM EAVES, B.B.A., M.B.A., *Assistant Professor of Accounting and Finance.*
- PAUL PENN ELLIOTT, A.B., *Lecturer in Physics.*
- MABEL DEANE ERWIN, B.S., M.A., *Professor and Head, Department of Clothing and Textiles.*
- EDMOND H. FORD, B.S., *Instructor in Mechanical Engineering.*
- RAYMOND ERNEST GARLIN, B.A., M.A., Ph.D., *Professor and Head, Department of Education and Psychology.*
- EUNICE JOINER GATES, B.A., M.A., Ph.D., *Professor of Foreign Languages.*
- WILLIAM BRYAN GATES, B.S., M.A., Ph.D., *Professor of English.*
- ERNEST WILLIS GIBSON, B.A., M.A., C.P.A., *Assistant Professor of Accounting and Finance.*
- HARRY FREDERICK GODEKE, B.S., M.S., *Professor and Head, Department of Mechanical Engineering.*
- HOWARD ELDON GOLDEN, B.S., Ph.D., *Associate Professor of Marketing.*
- ROBERT CABANISS GOODWIN, B.A., M.A., Ph.D., *Professor and Head, Department of Chemistry and Chemical Engineering, and Dean of Arts and Sciences.*
- LOLA BETH GREEN, B.A., M.A., *Instructor in English.*

ALAN MURRAY FINLAY GUNN, B.A., M.A., Ph.D., *Associate Professor of English*

WILLIS GUNN, B.A., *Instructor in Biology.*

JOE LEON HADDON, B.S., M.Ed., *Assistant Professor of Music.*

THOMAS EARLE HAMILTON, B.A., M.A., Ph.D., *Associate Professor of Spanish.*

GEORGE RANDOLPH HAMLETT, B.A., M.A., *Assistant Professor of Foreign Languages.*

FRED GEORGE HARBAUGH, B.S., D.V.M., *Professor of Animal Husbandry and Veterinarian.*

JOHN COYNE HARDGRAVE, *Professor of Mechanical Engineering.*

JAMES FENTON HARDING, B.S., M.S., *Associate Professor of Civil Engineering.*

LEVI MARLIN HARGRAVE, B.S., M.S., *Associate Professor of Agricultural Education.*

MARIE DAWKINS HARRISON, B.A., M.A., *Instructor in English.*

BEULAH FAY HATTOX, B.S., M.S., *Instructor in Foods and Nutrition.*

EMMETT ALLEN HAZLEWOOD, B.S., M.A., Ph.D., *Professor and Chairman, Department of Mathematics.*

ELLIS RICHARD HEINEMAN, B.A., M.A., *Professor of Mathematics.*

DONALD HELMERS, B.S., *Instructor in Mechanical Engineering.*

CARL HENNINGER, B. A., M. A., *Associate Professor of German.*

WILLIAM CURRY HOLDEN, B.A., M.A., Ph.D., *Professor and Head, Department of History and Anthropology, Dean of Graduate Studies, Curator of the Museum.*

MARY BELLE HOLLAND, B.A., M.A., *Instructor in Mathematics.*

FLOYD HONEY, B.A., M.A., *Assistant Professor of Education.*

CECIL HORNE, B.A., *Professor and Head, Department of Journalism.*

CHARLES ERNEST HOUSTON, B.S., M.A., *Associate Professor of Electrical Engineering.*

ROBERT S. HUFSTEDLER, B.S., *Instructor in Chemistry.*

WILLIAM C. IRVIN, B.S., M.S., *Lecturer in Geology.*

DOYLE DAVID JACKSON, B.A., M.A., Ph.D., *Professor of Education.*

J. W. JACKSON, B.A., M.A., *Professor of Government.*

MORLEY JENNINGS, B.S., *Professor and Head, Department of Physical Education for Men, Director of Athletics.*

PHILIP JOHNSON, B.S., *Instructor in Petroleum Engineering.*

PAUL THERON JONES, A.B., A.M., Ph.D., *Associate Professor of Chemistry.*

GLENNA BAILEY KEESEE, B.S., *Lecturer in Geology.*

SABE McCLAIN KENNEDY, JR., B.A., M.A., *Instructor in Government.*

LILA ALLRED KINCHEN, B.S., M.S., *Assistant Professor of Clothing and Textiles.*

OSCAR ARVLE KINCHEN, B.A., M.A., Ph.D., *Professor of History.*

FLORIAN ARTHUR KLEINSCHMIDT, B.S., M. in Arch., *Professor and Head, Department of Architecture.*

ALFRED B. LaGASSE, B.S., *Instructor in Plant Industry.*

- MILTON FREDERIC LANDWER, B.S., M.A., Ph.D., Associate Professor of Biology.
- JOHNNYE GILKERSON LANGFORD, B.B.A., M.A., Professor and Head, Department of Physical Education for Women.
- WOODROW WILSON LAUDERDALE, B.S., Instructor in Mechanical Engineering.
- THOMAS LUTHER LEACH, B.S., M.S., Professor of Agricultural Education.
- CECIL JIM LEE, B.S., Instructor in Electrical Engineering.
- ARTHUR HENRY LEIDIGH, B.S., M.S., Professor of Agronomy, and Dean of Agriculture, Emeritus.
- SAM LEIFESTE, B.A., M.A., Assistant Professor of Marketing.
- ARCHIE LEROY LEONARD, B.S., M.S., Associate Professor of Agricultural Economics.
- HELEN A. LINDELL, B.A., M.A., Lecturer in Speech.
- JOHNATHAN WATTAM LINDSAY, B.A., M.A., Instructor in Mathematics.
- IVAN LEE LITTLE, B.A., M.A., Assistant Professor of Philosophy.
- ROBERT IVAN LOCKARD, B.S., M.S., Associate Professor of Architecture.
- ELMER LEON McBRIDE, B.S., M.S., Professor and Head, Department of Agricultural Economics, Farm Management, and Rural Sociology.
- DONALD McDONALD, B.S., M.S., Assistant Professor of Education.
- LILLIAN ETTA McGLOTHLIN, B.A., M.A., Instructor in Government.
- SETH SHEPARD McKAY, B.A., M.A., Ph.D., Professor of History.
- FITZHUGH LEE McREE, B.S., M.S., Professor of Civil Engineering.
- RAYMOND de ELMONT, B.A., Instructor in Government.
- DON A. MARSHALL, B.S., M.S., Ph.D., Associate Professor of Agricultural Economics.
- HUBERT LYMON MATHEWS, B.S., M.S., Associate Professor of Animal Husbandry.
- LIDA BELLE MAY, B.A., M.A., Assistant Professor of Mathematics.
- MARIE McCRUMMEN MENAUL, B.A., Instructor in Chemistry.
- WILLIAM WALTER MERRYMON, A.B., A.M., Ph.D., Associate Professor of Physics.
- JAMES NEWTON MICHIE, B. S., M.A., Professor of Mathematics.
- JONNIE McCRERY MICHIE, B.S., M.A., Professor and Head, Department of Foods and Nutrition.
- MARIE AGNES MILES, B.A., M.A., Instructor in English.
- RUFUS ARTHUR MILLS, B.A., M.A., Professor of English.
- MARLIN P. J. MINTER, B.S., Lecturer in Electrical Engineering.
- FREEDIS LLOYD MIZE, B.S., M.Ed., Ph.D., Associate Professor of Economics and Management.
- G. B. MORRIS, B.A., Assistant Professor of Physical Education for Men.
- JUDD MORROW, B.S., Lecturer in Plant Industry.
- RAY CLIFFORD MOWERY, B.S., M.S., Professor of Animal Husbandry.
- JAMES HAROLD MURDOUGH, S.B., M.S.E., Professor and Head, Department of Civil Engineering.

DONALD VAN DALE MURPHY, B.A., M.A., *Associate Professor of English.*

LESTER G. NABORS, B.A., *Instructor in Chemistry.*

KLINE NALL, B.A., M.A., *Instructor in English.*

KOY L. NEELEY, B.S., M.S., *Associate Professor of Animal Husbandry.*

DORIS NESBITT, B.A., M.S., *Assistant Professor of Home Economics Education.*

AARON GUSTAF OBERG, B.S., M.S., Ph.D., *Associate Professor of Chemical Engineering and Assistant to Head, Department of Chemistry.*

ROBERT M. PARKER, B.A., M.A., *Assistant Professor of Mathematics.*

RODERICK PARKINSON, B.S., *Part-Time Instructor in Architecture.*

LEROY THOMPSON PATTON, B.A., B.S., M.S., Ph.D., *Professor of Geology.*

WILLIAM MARTIN PEARCE, B.A., M.A., *Assistant Professor of History.*

ANNAH JOE PENDLETON, B.A., M.A., *Professor and Head, Department of Speech.*

JOHN MOORE PENICK, JR., B.A., M.Ed., Ph.D., *Associate Professor of Engineering Drawing.*

CONNOR COLUMBUS PERRYMAN, B.S., *Professor of Engineering Drawing.*

MARTYE POINDEXTER, Ph.B., M.A., *Professor and Head, Department of Applied Arts.*

LOUIS JOHN POWERS, B.S., *Professor of Mechanical Engineering.*

CHARLES BLAISE QUALIA, B.A., M.A., Ph.D., *Professor and Head, Department of Foreign Languages.*

ETTIE CLAIRE QUICKSALL, B.A., M.A., *Instructor in Secretarial Administration.*

WILLIAM FRANCIS RAFFANIELLO, B.A., M.A., *Instructor in English.*

SUE AVA RAINEY, B.S., M.A., *Assistant Professor of Physical Education for Women.*

CHARLES ALBERT RENFROE, B.S., M.S., *Lecturer in Geology.*

FLOYD LEON REYNOLDS, B.A., M.A., *Assistant Professor of Foreign Languages.*

MARGARET MANOR RICHARDS, B.S., M.A., *Assistant Professor of Physical Education for Women.*

VIRGINIA BOWMAN ROBERTS, B.A., M.A., *Instructor in Mathematics.*

POLK ROBISON, B.A., *Associate Professor of Physical Education for Men.*

KATE ELLEN ROGERS, B.A., M.A., *Instructor in Applied Arts.*

ANNIE NORMAN ROWLAND, B.S., M.S., *Instructor in Mathematics.*

REGINALD RUSHING, B.A., M.B.A., Ph.D., C.P.A., *Professor and Chairman, Department of Accounting and Finance.*

- RUTH WILSON RUSSELL, B.S., M.A., *Instructor in English.*
- ROSALYN BASS SASSER, B.A., *Instructor in Architecture.*
- CLARENCE CARL SCHMIDT, B.A., M.A., Ph.D., *Professor and Head, Department of Physics.*
- JAMES THOMAS SHAVER, B.S., M.A., *Associate Professor of Education.*
- RICHARD SHEEHAN, B.A., *Instructor in Economics and Management.*
- RAYMOND GILBERT SIDWELL, B.A., M.A., Ph.D., *Professor and Chairman, Department of Geology.*
- WILLIAM MACKEY SLAGLE, B.A., M.A., *Associate Professor of Chemistry.*
- GEORGE SMALLWOOD, B.A., M.A., *Professor of English.*
- L. EDWIN SMITH, B.B.A., M.B.A., C.P.A., *Associate Professor of Accounting and Finance.*
- MABEL BROOKS SMITH, B.A., M.A., *Instructor in Sociology.*
- MARION JUDSON SMITH, B.S., M.S., *Professor of Electrical Engineering.*
- FRED WINCHELL SPARKS, B.S., M.A., M.S., Ph.D., *Professor of Mathematics.*
- WENZEL LOUIS STANGEL, B.S., M.S., *Professor and Head, Department of Animal Husbandry, Director of Farms, and Dean of Agriculture.*
- OSCAR ALLEN ST. CLAIR, B.S., *Professor and Head, Department of Industrial Engineering and Engineering Drawing.*
- RUSSELL JACK STEFFY, B.S., *Lecturer in Physics.*
- TOM BASIL STENIS, B.S., M.S., *Assistant Professor of Electrical Engineering.*
- RUSSELL WILLIAM STRANDTMANN, B.S., M.S., Ph.D., *Professor of Biology.*
- ALFRED BELL STREHLI, B.A., B.S., M.A., *Assistant Professor of Foreign Languages.*
- ALAN LANG STROUT, B.A., M.A., Ph.D., *Professor of English.*
- MARGRET RUSSELL STUART, B.A., *Instructor in Chemistry.*
- RICHARD ARTHUR STUDHALTER, B.A., M.A., Ph.D., *Professor of Biology.*
- ARCHIE WILLIAM SULLIVAN, B.S., M.S., *Assistant Professor of Plant Industry.*
- WILLIAM T. TANNER, B.A., M.S., *Lecturer in Geology.*
- HASKELL GRANT TAYLOR, B.B.A., M.A., *Associate Professor of Accounting and Finance, and Acting Dean of Business Administration.*
- GUSSIE LEE TEAGUE, B.A., M.A., *Associate Professor of English.*
- ETHEL KING TERRELL, B.A., M.A., *Associate Professor and Chairman, Department of Marketing and Secretarial Administration.*

- EDISON HUXLEY THOMAS, B.A., M.B.A., *Instructor in Mathematics.*
- EARL L. THOMPSON, B.A., M.A., Ph.D., *Professor of Mathematics.*
- AGNES ANN TRUE, B.A., M.A., Ph.D., *Associate Professor of Education and Psychology.*
- SCOTT MAE TUCKER, B.A., M.A., *Instructor in Foreign Languages.*
- RALPH SYLVESTER UNDERWOOD, B.A., M.A., Ph.D., *Professor of Mathematics.*
- ERNEST WALLACE, B.S., M.A., Ph.D., *Professor of History, and Assistant Dean of Arts and Sciences.*
- WILSON BRUHL WARD, B. S., M.A., *Instructor in Speech.*
- G. FREDERICK WARN, A.B., M.S., *Lecturer in Geology.*
- JAMES ARTHUR WATSON, JR., B.A., Ph.D., *Assistant Professor of Chemistry.*
- JANE WATSON, B.A., *Instructor in Journalism.*
- MARGARET WATSON WEEKS, B.S., M.S., *Professor and Head, Department of Home Management, Professor of Foods and Nutrition, and Dean of Home Economics.*
- GRACE PLEASANT WELLBORN, B.A., B.S., M.A., *Instructor in English.*
- GEORGE ARTHUR WHETSTONE, B.S., M.S., Ph.D., *Associate Professor of Civil Engineering.*
- WILLIAM E. WHITTINGTON, JR., B.B.A., M.B.A., *Assistant Professor of Accounting and Finance.*
- FRED BIXLER WIDMOYER, JR., B.A., *Part-Time Instructor in Biology.*
- THOMAS FERDINANT WIESEN, B.S., M.B.A., *Professor and Head, Department of Economics and Management.*
- DEWEY O. WILEY, B. Mus., D. Mus., *Professor of Music and Director of Band.*
- FLOYD LEWIS WILLIAMS, B.S., *Assistant Professor of Mechanical Engineering.*
- JUDDIE JOHNSON WILLINGHAM, B.S., M.S., Ph.D., *Professor and Acting Chairman, Department of Dairy Manufactures.*
- RUTH DONALD WILSON, B.A., M.A., *Instructor in English.*
- HORACE EUGENE WOODWARD, 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 and Head, Department of Plant Industry.*

ORGANIZATION OF THE COLLEGE BY DIVISIONS AND DEPARTMENTS

Agriculture

- Agricultural Economics
(Rural Sociology)
- Agricultural Education
- Animal Husbandry (Poultry
Husbandry, Veterinary
Science)
- Dairy Manufactures
- Plant Industry (Agricultural
Engineering, Agronomy,
Horticulture)

Arts and Sciences

- Biology (Bacteriology, Botany,
Zoology)
- Chemistry
- Economics
- Education and Psychology
- 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 Education
- Physics
- Pre-professional courses in
Medicine, Dentistry, Pharm-
acy, Law
- Speech
- Also courses in Biblical
Literature

Business Administration

- Accounting and Finance
- Economics and Management
- Marketing and Secretarial Ad-
ministration

Engineering

- Architecture
- 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
Family Relations
- Clothing and Textiles
- Foods and Nutrition
- Home Economics Education
- Home Management
- Institutional Management

Graduate

- Master of Arts
- Master of Business Adminis-
tration
- Master of Education
- Professional Degrees in Engi-
neering
- Master of Science

Military Science and Tactics (ROTC)

- Basic and Advanced
- Air Force
- Engineering
- Infantry
- Signal Corps

Extension

- Correspondence
- Extension
- Lecture
- Motion Picture

GENERAL INFORMATION

Location

Texas Technological College is a state-supported coeducational college. It is located at Lubbock in the South Plains area, approximately 200 miles from the northern line of the Panhandle and 400 miles northwest of the state capital. The elevation is 3200 feet above sea level. Pleasant days and cool nights make it a climate conducive to study and recreation.

The city and suburbs have a permanent population of approximately 72,000. Excellent churches, schools, hotels, and shopping centers are available. Two railway systems, an interstate bus line, and three air lines operate through the city.

History

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

The first buildings were erected and opened to students on Sept. 30, 1925. The first president was Paul Whitfield Horn (1925-32). He was followed by Bradford Knapp (1932-38), Clifford B. Jones (1938-44, President Emeritus 1944-), William Marvin Whyburn (1944-48), and D. M. Wiggins (1948-).

The college opened with 1379 students. Enrollment at the beginning of the 1948-49 session was 6146.

THE SUMMER SESSION

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

The 1948 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. A well-rounded freshman program is offered in

all departments open to freshmen. High school graduates who contemplate the study of 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.
3. *Teachers in the public schools.* The shortage of teachers in the public schools has caused many people to enter or re-enter the profession to help in the emergency. Many have felt the need for further training in order to continue teaching. The summer school offers opportunity to meet those needs, both at the undergraduate and graduate levels.
5. *Graduate students.* Full graduate work will be offered in the summer session, leading to the Degrees 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 will apply to the summer school. Because of qualitative admission requirements, all new students must present transcripts of former records as a basis for admission. Obviously students may not be admitted without transcripts as special summer school students.

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 to the Division of Engineering with Condition. The study of engineering requires a thorough background of high school preparation in mathematics and physics. A prospective engineering student is strongly urged, therefore, to present 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 waiting 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, as conditions must be removed during the first semester. The student deficient in high school physics may remove this condition by satisfactory completion of freshman college physics (Physics 131-2).

Admission to the Division of Business Administration. Freshmen students are not admitted to the Division of Business Administration. Only students of sophomore or higher standing are admitted. Freshmen who plan to major in the Division of Business Administration should register in the Division of Arts and Sciences.

Admission from Other Colleges or Universities. A legal resident of Texas who has attended another recognized college or university may be admitted on presentation of an official transcript showing a grade point average of not less than 1.00 (C average) in (1) all courses for which he has been enrolled, or (2) the last two full semesters or their equivalent. Students who, for any reason, are ineligible to continue in the college or university formerly attended cannot be admitted. Transfers from other colleges will not be permitted to register until an official transcript is on file and students are urged to send their records well in advance of registration date. Transfer students are warned not to disregard their attendance at another college and endeavor to enter on their high school transcripts only. This is regarded as falsification of records. Any excess of grade points on transferred records may not be used to make up a deficiency on grade points in work done at this college.

Admission to the Graduate Division. Graduates of accredited colleges and universities who present satisfactory records may be admitted to the Division of Graduate Studies.

Admission of Special Summer School Students. Because of the quality requirements for admission to any division of the college, students cannot be admitted as special summer school students without transcripts. All students must have transcripts on file before registration.

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 class schedule is approved by his dean. No refund is 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 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 students who enroll for less than 4 semester hours in any six-week term, the registration fee is \$12.50 per semester hour.

Student Health and Activity Fee. Pursuant to an act of the Texas Legislature, each student enrolled for more than 3 semester hours is required to pay a student health and activity fee of \$7.50 per six-week term of the summer session. This fee covers recreational activities, health and infirmity service, student publications, and admission to intercollegiate athletic contests. Students enrolled for less than 4 semester hours are not permitted to pay this fee.

Uniform Property Deposit. A uniform 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 use or possession. The unused portion of the deposit is returnable to the student upon withdrawal, or at the close of the term.

Late Registration Fee. Any student who registers after the first day of class work shall be required to pay an additional service charge of \$2.

Summary of Expenses For Six-Week Term: Fees, Books, and Supplies

Registration fee (legal resident of Texas)	\$17.50
Uniform property deposit (refundable)	
New students only	7.00
Student health and activity fee	5.00
Books and supplies (approximate average)	12.00
<hr/>	
Total for six-week term	41.50
Board and room in college dormitory	90.00
<hr/>	
Estimated grand total for six-week term	\$131.50

Engineering students are required to purchase their own drawing equipment, slide rule, etc., which, plus books, costs approximately \$45 for the summer session.

Music Fees for Private Instruction

Private instruction in voice and in instruments is available from members of the music staff. The following costs are not covered by the college registration fee. They are payable to the teacher in advance at the beginning of each six-week term:

		Two lessons per week for six-week sum- mer term
Mr. J. P. Blitz	Cello	\$60.00
Mrs. Myrtle Dunn Short	Piano	36.00
	Voice	36.00
Mrs. Mamie I. Neal (First term only)	Pipe Organ	36.00
	Piano	24.00
Mrs. Stewart Shafter	Piano	33.33
	Voice	33.33
Mr. J. H. Penn	Voice	26.66
Mr. Wilford Smith	Piano	36.00

Practice studio and piano rental payable at the college Business Office:

One hour per day per six-week term	4.00
Each additional hour	2.00

For orchestra instruments—Inquire of Head of Department.

For band instruments—Inquire of Director of Band.

Division of Agriculture

The summer session for the Division of Agriculture will include undergraduate courses in agricultural economics, agricultural education, agricultural engineering, agronomy, 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, and animal 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 education, and instructors in the Veterans' Training Program.

Division of Arts and Sciences

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

A continuing function of the summer school is to provide work for those who do not attend the regular session. At present the needs of teachers assume a paramount position and the offerings in the fields of education and psychology have been increased to a much greater extent than in years just preceding. The number and variety of advanced courses which may be used by graduate students has been materially strengthened and teachers will find a full program of work leading to both the bachelors' and masters' degrees.

Division of Business Administration

Students interested in the field of business, and who have completed sufficient college work to attain sophomore standing, are generally admitted to the Division of Business Administration. A written permit is necessary for a student to transfer from another division. Veteran students who have 26 or more college credit hours should enroll directly in the Division of

Administration. Transfer students from other schools having 26 or more college credit hours may enroll directly in the division. Students previously enrolled in business administration in this college will be re-admitted directly into the division.

Students enrolling in the Division of Business Administration should choose one of the following majors: accounting, finance, economics, management, marketing, secretarial administration, commercial teaching, international trade, or public administration.

Work is offered in all departments of the division during the summer. Both undergraduate and graduate courses are offered in order that students may work toward or complete the desired degree during the summer.

Division of Engineering

The Engineering Division is offering 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 of all students in residence in the fall semester.

All the work of the freshman year in the Division of Engineering will be available. 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-Third 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 1948-49 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 freshmen, sophomore, junior, and senior students,

and for graduates. Students who wish to complete degree requirements in less than four years may do so by attending summer school. Those now in college may supplement their programs, and entering students will find a full schedule of work offered during both terms of summer school.

Graduate Courses are given special attention. In the first term, graduate courses are offered in home economics education and nursery school education, as well as in the subject matter fields of clothing and textiles and foods and nutrition.

During the second term, methods of adult leadership will be taught, with observation and participation in actual programs.

In the second term, also, courses will be offered in clothing and textiles, of interest to high school teachers of homemaking and junior college teachers of clothing and textiles. Individual problems will be selected by members of the class. Attention will be given to short cuts, factory methods and managerial problems.

Division of Graduate Studies

Texas Technological College is a member of the Southern Conference of Graduate Schools, an organization composed of the 40 highest ranking universities in 15 southern states. This conference maintains minimum standards for all graduate degrees. Texas Technological College conforms to these standards, both as to the quality of its faculty and requirements for the degrees.

Summer session offerings are selected with special regard to the needs of public school teachers. A wide variety of professional courses in the field of education, as well as in the subject matter departments, are given.

Regulations and requirements concerning all phases of graduate work are given in the Graduate Bulletin or in the General Catalog, copies of which may be obtained from the Registrar. Other inquiries may be directed to the Dean of Graduate Studies.

Entrance arrangements to the Division of Graduate Studies could be completed with the Registrar, who is the director of admissions, before the date of registration.

Undergraduate Degrees

Undergraduate degrees given are: 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. While all these degrees are standard, the number of semester hours required varies according to the curriculum followed.

Graduate Degrees

The Degrees of Master of Arts, Master of Business Administration, Master of Education, and Master of Science are offered.

The Master of Arts Degree may be secured with majors in chemistry, economics, education and psychology, English, foreign language (Spanish), geology, government, history and anthropology, mathematics, and physics. The Master of Science Degree may be obtained with majors in any of the departments of the Division of Agriculture; in the Departments of Foods and Nutrition, Clothing and Textiles, and Home Economics Education of the Division of Home Economics; in the Departments of Chemistry, Geology, Mathematics, and Physics in the Division of Arts and Sciences; in the Division of Business Administration; and in the Department of Chemical Engineering in the Division of Engineering. Minor work may be completed in these and all other departments of the college.

Division of Extension

Approximately 270 college courses and 40 high school courses, including both credit and non-credit courses, are offered by correspondence and extension class work for those who are unable to secure classes in residence. Credit courses may count on degrees and teachers' certificates. A list of available courses will be sent on request.

Approximately 650 16mm educational motion pictures are available for the use of colleges, public schools, county agents, clubs, churches, and other organizations at reasonable rentals. A classified descriptive catalog of these films will be sent on request.

Division of Military Science and Tactics

No summer school work will be offered in military science during the 1949 summer school session, since most of the Air Force and Army personnel on duty at the college will accompany advanced students to summer camp.

A representative will be on duty in the Military Science Division throughout the summer, however, to interview prospective students and for administrative matters.

Class Work and Routine

Student Load. The normal load for a six-week term is 6 semester hours. In no case will a student 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.

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. However, this does not apply in the summer session and permission may not be granted to audit classes during the summer school. 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 board and room in the college dormitories, two per room, will be \$90 per term of six weeks, payable in advance. Corner rooms will \$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 couples without children.

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 1949 summer session, providing there is sufficient demand.

Information concerning living quarters in the city of Lubbock is available in the offices of the Dean of Men and Dean of Women. The plan under which all off-campus living accommodations are ap-

proved by the college is under the direction of the Student Welfare Committee.

Recreation and Health Service

In summer school at Texas Technological College, study and recreation go hand in hand. For the 1949 summer session the Recreation Committee has provided a well-balanced program of artist course numbers, motion pictures, and dances. The program is planned with the hope that the wives and children of summer school students as well as regularly enrolled students themselves will find ample and adequate diversion. The recreation program underwrites the Summer Toreador, weekly college newspaper. This full recreation program is available to summer school students through payment of the activity fee.

Nearby Mackenzie State Park and Buffalo Lakes offer delightful opportunities for swimming, golf, tennis, and picnics.

The activity fee also covers the health service for students enrolled in summer school. The college infirmary, a 20-bed unit, provides an accomodation 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. A student judged by the infirmary staff to need such hospitalization may stay in the infirmary for as many as seven days during a term without charge; he will pay a fee to cover cost for each additional day in the infirmary staff requires him to stay.

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 Trip to Mexico City

A field course, Anthropology 336-7, will be conducted in Mexico City by Mr. W. M. Pearce, Jr., during the second term of summer school. Prerequisite for the course is junior standing or 12 hours of history. The course will deal with the pre-history and history of the Mexican Plateau. Excursions will be made to Cuernavaca, Taxco, Pueblo, Xochimilcho, Toluca, the pyramids of Teotihuacan, and other places of archaeological and historical interest. The cost of transportation, food, and lodging will be on a cooperative basis, approximately \$235 each. A deposit of \$25 will be necessary to make the essential reservations for each person. Inquiries may be directed to Dr. W. C. Holden, Head of the Department of History and Anthropology.

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, and 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 accomodate 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, held by the Department of Textile Engineering in cooperation with the United States Department of Agriculture, will be held June 20 to July 1.

This course is open to anyone interested in learning the fundamentals of cotton classing and marketing. It is especially designed to fulfill the needs of ginner, cotton dealers, and farmers. This short course does not carry college credit, and college admission requirements do not apply to those enrolled for the short course only.

The Library

The library provides two large general reading rooms and three special reading rooms for the use of graduate and undergraduate students. It affords also an adequate number of carrels for the individual use of graduate students engaged in research.

Library materials include 92,866 catalogued volumes, most of which are in the main stacks and are administered from the circulation desk. In proximity to this desk is a typing room available for taking notes from library books.

In the reserve reading room books designated for use in individual courses are shelved. This room also houses collateral

reading collections, consisting of both reference books and general treatises, arranged by subject. All books in this room are on open shelves, i. e., readers may select and use them in the reading room without charging them.

Periodicals and public documents are under the administration of the reference department. The periodicals section contains 12,451 bound periodicals, together with current subscriptions to 857 periodicals and newspapers, received by purchase or gift. During the past two years runs of important periodicals have been secured to complete hitherto incomplete files or to supplement files that formerly extended only from the date of the establishment of the college.

The library has been a depository for federal documents since 1933 and is gradually increasing its holding of documents published before that date. The collection now consists of about 125,000 publications.

The history collection, consisting of 745 volumes on the Southwest, is housed in a separate reading room. Many of the titles in this library are unique among Texas collections. They provide an excellent source for thesis material, not only in history but in any subject the locale of which is the Southwest.

Two microfilm readers in the reference department are available for use by faculty members and students.

Professional staff members in charge of the reference collection, documents, serials, and periodicals are present during most hours of the day to aid and instruct in the use of these materials. The readers' adviser gives assistance in the use of the card catalog and supervises the administration of the reserve and collateral reading books and of the 500-volume recreational reading collection. She also collaborates with faculty members in the organization of materials for the use of students in their courses.

The library is open from 7:30 A. M. to 9:30 P. M., Monday through Friday, and from 7:30 A. M. to 4:30 P. M. on Saturday.

The Placement Service

The college offers the facilities of its placement service, both to its students and to those desiring to employ these students. Graduates and former students are urged to take advantage of this service, and graduating seniors will be expected to complete personnel sheets for filing with that office prior to the receipt of their degrees.

Employers, representing both school administrators and in-

dustry, should file requests with that office for needed personnel. All correspondence relative to employment of students should be addressed to that office.

Further details and coverage offered may be received from the Secretary to the Placement Committee, Room 205 of the Administration Building.

The College Bookstore

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

Summer Session in Local Schools

The Lubbock public schools will offer a regular summer school program from May 30 through July 12, with class work beginning June 1.

In grades one through eight, work in the fundamentals will be offered for review only. Art, music, and playground recreation are included in the program also. A small fee will be charged for children residing outside the Lubbock Independent School District.

Credit work—not more than two half-units per student—will be offered in grades nine through twelve. Practically all required courses in history, mathematics, and English, and some electives may be taken. In addition to these courses, there will be special offerings in band, orchestra, chorus, dramatics, reading, handwriting, and physical education. Tuition charges will be announced later.

Any further information may be obtained by writing the Supervisor's Office, 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 upon him during the commencement program to be held the last day of the summer session. Summer commencement is reinstituted this summer after a lapse of two years and will be held on Friday, Aug. 26 at 8 P.M.

Admission to Candidacy for Graduation

A student shall be admitted to unqualified candidacy for graduation only if by the beginning of the semester or summer session, at the end of which all work for the degree will be completed, he shall have earned the entire number of grade points required for the degree for which he is a candidate.

Any student who enters this last semester or summer session 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, cap and gown, invitations, 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, et cetera, see the Twenty-Third Annual 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 three 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-Third Catalog for course descriptions and prerequisites.

ACCOUNTING AND FINANCE

First Term

ACCOUNTING

244.	Elementary Accounting. 4 sem. hrs., 9 lec. hrs., 9 lab. hrs.	Mrs. Eaves
245.	Elementary Accounting. 4 sem. hrs., 9 lec. hrs., 9 lab. hrs.	Mr. Gibson
334.	Intermediate Accounting. 3 sem. hrs.	Mr. Smith
336.	Principles of Cost Accounting. 3 sem. hrs.	Mr. Gibson
430.	Income Tax Accounting. 3 sem. hrs.	Mr. Taylor
434.	Advanced Accounting. 3 sem. hrs.	Mr. Rushing
437.	Principles of Auditing. 3 sem. hrs.	Mr. Smith
531.	C. P. A. Problems. 3 sem. hrs.	Mr. Rushing

FINANCE

331.	Corporation Finance. 3 sem. hrs.	Mrs. Eaves
338.	Business Law. 3 sem. hrs.	Mr. Carr
339.	Business Law. 3 sem. hrs.	Mr. Bass

Second Term

ACCOUNTING

- | | | |
|---------|---|-----------------|
| 245. | Elementary Accounting. 4 sem. hrs., 9 lec. hrs.,
9 lab. hrs. | Mr. Whittington |
| 335. | Intermediate Accounting. 3 sem. hrs. | Mr. Rushing |
| 430. | Income Tax Accounting. 3 sem. hrs. | Mr. Taylor |
| 432. | Governmental Accounting. 3 sem. hrs. | Mr. Whittington |
| 435. | Advanced Accounting. 3 sem. hrs. | Mr. Rushing |
| 438. | Advanced Auditing. 3 sem. hrs. | Mr. Smith |
| FINANCE | | |
| 331. | Corporation Finance. 3 sem. hrs. | Mr. Smith |
| 339. | Business Law. 3 sem. hrs. | Mr. Bass |

AGRICULTURAL ECONOMICS

First Term

AGRICULTURAL ECONOMICS

- | | | |
|------|--|-------------|
| 235. | Fundamentals of Economics. 3 sem. hrs. | Mr. Bennett |
| 331. | Statistical Problems. 3 sem. hrs.,
6 lec. hrs., 9 labs hrs. | Mr. Bennett |
| 435. | International Agricultural Economics.
3 sem. hrs. | Mr. McBride |
| 531. | Land Use. 3 sem. hrs. | Mr. Leonard |
| 601. | Thesis | Staff |

RURAL SOCIOLOGY

- | | | |
|------|------------------------------|-------------|
| 432. | Rural Sociology. 3 sem. hrs. | Mr. McBride |
|------|------------------------------|-------------|

Second Term

AGRICULTURAL ECONOMICS

- | | | |
|------|--|--------------|
| 236. | Principles of Agricultural Marketing.
3 sem. hrs. | Mr. Marshall |
| 422. | Agricultural Prices and Forecasting.
2 sem. hrs. | Mr. Leonard |
| 431. | Livestock Marketing. 3 sem. hrs. | Mr. Marshall |
| 433. | Farm Management. 3 sem. hrs., 6 lec.
hrs., 9 lab hrs. | Mr. Leonard |
| 533. | Marketing Problems. 3 sem. hrs. | Staff |
| 601. | Thesis | Staff |

AGRICULTURAL EDUCATION

First Term

- | | | |
|------|---|---------------|
| 321. | Organization and Administration of Vocational Education in Agriculture. 2 sem. hrs. | Mr. Hargrave |
| 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 |
| 601. | Thesis | Mr. Chappelle |

Second Term

- | | | |
|------|--|---------------|
| 511. | Problems, 1 sem. hr. | Mr. Chappelle |
| 531. | Investigations in the Field of Agricultural Education. 3 sem. hrs. | Mr. Leach |
| 601. | Thesis | Mr. Chappelle |

ANIMAL HUSBANDRY

First Term

ANIMAL HUSBANDRY

- | | | |
|------|--|-------------|
| 231. | Breeds of Livestock. 3 sem. hrs. | Mr. Mowery |
| 422. | Animal Breeding. 2 sem. hrs. | Mr. Neeley |
| 424. | Beef Cattle Production. 2 sem. hrs. | Mr. Stangel |
| | Or | |
| 426. | Sheep and Wool Production. 2 sem. hrs. | Mr. Mowery |
| 428. | Dairy Cattle Production. 2 sem. hrs. | Mr. Neeley |
| 531. | Advanced Animal Husbandry. 3 sem. hrs. | Staff |
| 601. | Thesis | Staff |

POULTRY HUSBANDRY

- | | | |
|------|--|-------------|
| 231. | Farm Poultry. 3 sem. hrs., 6 lec. hrs., 9 lab hrs. | Mr. Mathews |
| 421. | Poultry Production. 2 sem. hrs. | Mr. Mathews |

Second Term

ANIMAL HUSBANDRY

131. General Animal Husbandry. 3 sem. hrs.,
6 lec. hrs., 9 lab. hrs. Mr. Harbaugh
322. Farm Meats. 2 sem. hrs., 3 lec. hrs.,
9 lab. hrs. Mr. Anderson
331. Animal Nutrition and Principles of Feeding.
3 sem. hrs., 6 lec. hrs., 9 lab. hrs. Mr. Baumgardner
427. Swine Production. 2 sem. hrs. Mr. Baumgardner
532. Advanced Animal Husbandry. 3 sem. hrs. Staff
601. Thesis Staff

VETERINARY SCIENCE

333. General Veterinary Science. 3 sem. hrs. Mr. Harbaugh

APPLIED ARTS

First Term

231. Costume Design. 3 sem. hrs., 6 lec. hrs.,
9 lab. hrs. Mrs. Beitler
233. Textile Design. 3 sem. hrs., 3 lec. hrs.,
18 lab. hrs. Miss Rogers
331. Interior Design. 3 sem. hrs., 6 lec. hrs.,
9 lab. hrs. Miss Poindexter

DEPARTMENT OF ARCHITECTURE

First Term

- 121, 122. Freehand Drawing I, II. 2 sem. hrs.,
18 labs hrs. each Miss Smith
- 123, 124. Elements of Composition I. 2 sem. hrs.,
18 lab hrs. each. Mrs. DeWeese
125. Shades and Shadows. 2 sem. hrs., 18 lab. hrs. Mrs. Sasser
131. Elements of Architecture. 3 sem. hrs., 3 lec hrs.,
24 lab. hrs. Mr. Kleinschmidt
239. Pottery. 3 sem. hrs., 3 lec. hrs., 18 lab. hrs. Mrs. Sasser
326. Anatomy. 2 sem. hrs., 18 lab. hrs. Mr. DeWeese
3216. Clay Modeling. 2 sem hrs., 18 lab. hrs. Staff
333. Building Construction. 3 sem. hrs., 3 lec. hrs.,
18 lab hrs. Mr. DeWeese
- Mr. Bradshaw

351. Architectural Design, Grade II. 5 sem. hrs.,
45 lab. hrs. Mr. Kleinschmidt
423. Life Drawing II. 2 sem. hrs., 18 lab hrs. Staff
426. Oil Painting. 2 sem. hrs., 18 lab. hrs. Mr. DeWeese

PUBLIC SCHOOL ART

328. Poster Design and Lettering for Public
School Teachers. 2 sem. hrs., 18 lab. hrs. Mr. Parkinson
337. Public School Art. 3 sem. hrs., 3 lec. hrs.,
18 lab. hrs. Mr. Parkinson
439. Methods of Teaching Art Integrated for the Elemen-
tary and the High School. 3 sem. hrs., 3 lec. hrs.,
18 lab. hrs. Mr. Parkinson

Second Term

- 121, 122. Freehand Drawing I, II. 2 sem. hrs.,
18 lab. hrs. each. Staff
- 123, 124. Elements of Composition I. 2 sem. hrs.
18 lab hrs. each. Mrs. DeWeese
126. Perspective. 2 sem. hrs., 18 lab hrs. Staff
132. Elements of Architecture. 3 sem. hrs.,
3 lec. hrs., 24 lab. hrs. Mr. Lockard
Mrs. Sasser
2310. Pottery. 3 sem. hrs., 3 lec. hrs., 18 lab. hrs. Mr. DeWeese
327. Life Drawing I. 2 sem. hrs., 18 lab hrs. Staff
3217. Clay Modeling. 2 sem. hrs., 18 lab. hrs. Mr. DeWeese
334. Building Construction. 3 sem. hrs., 3 lec. hrs.,
18 lab. hrs. Mr. Bradshaw
352. Architectural Design. 5 sem. hrs., 45 lab. hrs. Mr. Lockard
424. Life Drawing III. 2 sem. hrs., 18 lab. hrs. Staff
427. Oil Painting. 2 sem. hrs., 18 lab. hrs. Mr. DeWeese

PUBLIC SCHOOL ART

329. Poster Design and Lettering for Public
School Teachers. 2 sem. hrs., 18 lb hrs. Mr. Parkinson
338. Public School Art. 3 sem. hrs., 3 lec. hrs.,
18 lab. hrs. Mr. Parkinson
4310. Methods of Teaching Art Integrated for the Elemen-
tary and the High School. 3 sem. hrs., 3 lec. hrs.,
18 lab. hrs. Mr. Parkinson

BIOLOGY

First Term

BACTERIOLOGY

231. Bacteriology. 3 sem. hrs., 6 lec. hrs., 9 lab hrs. Mr. Gunn
 331-2. Principles of Bacteriology. 6 sem. hrs.,
 12 lec. hrs., 18 lab. hrs. Mr. Camp, Mr. Gunn

BIOLOGY

134. Zoology. 3 sem. hrs., 6 lec. hrs., 9 lab. hrs. Mr. Strandtmann

ZOOLOGY

235. Anatomy, Physiology, and Hygiene. 3 sem. hrs.,
 6 lec. hrs., 9 lab. hrs. Mr. Cross
 531. Problems in Zoology. 3 sem. hrs. Mr. Cross

Second Term

BIOLOGY

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

BOTANY

531. Problems.- 3 sem. hrs. Mr. Studhalter
 601. Thesis Mr. Studhalter

ZOOLOGY

236. Anatomy, Physiology, and Hygiene. 3 sem. hrs.,
 6 lec. hrs., 9 lab. hrs. Mr. Landwer

CHEMISTRY

First Term

131. General Chemistry. 3 sem hrs., 7½ lec. hrs.,
 7½ lab hrs. Miss Cohea, Mrs. Menaul and Staff
 132. General Chemistry. 3 sem. hrs., 7½ lec. hrs.,
 7½ lab. hrs. Mr. Jones
 220. Qualitative Analysis. 2 sem. hrs., 3 lec. hrs.,
 9 lab. hrs. Miss Stuart, Miss Bryant
 331. Quantitative Analysis. 3 sem. hrs.,
 22 1-2 lab. hrs. Mr. Oberg

341. Organic Chemistry. 4 sem. hrs., 9 lec. hrs.
9 lab. hrs. Mr. Slagle
343. Organic Chemistry. 4 sem. hrs., 9 lec. hrs.,
9 lab hrs. Mr. Goodwin and Mr. Watson
411. Seminar. 1 sem. hr. Staff
435. Advanced Quantitative Analysis. 3 sem. hrs.,
22½ lab. hrs. Mr. Oberg
441. Physical Chemistry. 4 sem. hrs., 9 lec. hrs.,
9 lab. hrs. Mr. Dodge

Second Term

132. General Chemistry. 3 sem. hrs., 7½ lec. hrs.,
7½ lab. hrs. Miss Brock, Mr. Nabors
Mr. Hufstedler, and Staff
332. Quantitative Analysis. 3 sem. hrs.,
22½ lab. hrs. Mr. Craig
344. Organic Chemistry. 4 sem. hrs., 9 lec. hrs.,
9 lab. hrs. Mr. Dennis

Second Term

412. Seminar. 1 sem. hr. Staff
434. Organic Preparations. 3 sem hrs., 22½ lab. hrs. Mr. Dennis
442. Physical Chemistry. 4 sem. hrs., 9 lec. hrs.,
9 lab. hrs. Mr. Dodge

CHILD DEVELOPMENT AND FAMILY RELATIONS

First Term

131. Introduction to Child Guidance. 3 sem hrs.,
6 lec. hrs., 9 lab. hrs. Mrs. Camp
432. Nursery School Education. 3 sem. hrs.,
6 lec. hrs., 9 lab. hrs. Miss Callan
433. Family Relations. 3 sem. hrs. Miss Callan
341. Organic Chemistry. 4 sem. hrs., 9 lec. hrs.,
9 lab. hrs. Mr. Slagle

CIVIL ENGINEERING

First Term

231. Plane Surveying. 3 sem. hrs., 6 lec. hrs.,
9 lab. hrs. Staff
310. Testing Laboratory. 1 sem. hr., 9 lab hrs. Mr. Harding

- | | | |
|------|---|------------------------------|
| 320. | Structures. 2 sem hrs., 3 lec. hrs., 9 lab hrs. | Mr. Harding |
| 331. | Applied Mechanics-Statistics. 3 sem. hrs. | Mr. Whetstone
Staff |
| 332. | Applied Mechanics-Kinematics and Kinetics.
3 sem. hrs. | Mr. Murdough |
| 333. | Applied Mechanics-Strength of Materials.
3 sem. hrs. | Mr. Harding
Mr. Whetstone |
| 334. | Surveying. 3 sem. hrs., 6 lec. hrs., 9 lab. hrs. | Mr. McRee |
| 410. | Hydraulics Laboratory. 1 sem. hr.,
9 lab hrs. | Mr. Whetstone |
| 420. | Hydraulics. 2 sem. hrs. | Mr. Whetstone |
| 439. | Law and Ethics in Engineering. 3 sem hrs. | Mr. McRee |

Second Term

- | | | |
|------|---|----------------------------|
| 231. | Plane Surveying. 3 sem. hrs., 6 lec. hrs., 9 lab. hrs. | Staff |
| 331. | Applied Mechanics-Statics. 3 sem. hrs. | Staff |
| 332. | Applied Mechanics-Kinematics and Kinetics.
3 sem. hrs. | Mr. Harding, Mr. Whetstone |
| 333. | Applied Mechanics-Strength of Materials.
3 sem. hrs. | Mr. Harding, Mr. Whetstone |
| 335. | Highway Engineering. 3 sem. hrs. | Mr. McRee |
| 439. | Law and Ethics in Engineering. 3 sem. hrs. | Mr. McRee |

CLOTHING AND TEXTILES

First Term

- | | | |
|------|--|-----------------------------|
| 232. | Dressmaking. 3 sem. hrs., 3 lec. hrs.,
18 lab. hrs. | Mrs. Kinchen
Miss Wright |
| 331. | Tailoring. 3 sem. hrs., 3 lec. hrs., 18 lab. hrs. | Miss Wright |
| 334. | Family Clothing. 3 sem. hrs., 6 lec. hrs.,
9 lab hrs. | Mrs. Kinchen |

Second Term

- | | | |
|------|--|------------|
| 532. | Special Problems in Clothing. 3 sem. hrs.,
6 lec. hrs., 9 lab. hrs. | Miss Erwin |
|------|--|------------|

DAIRY MANUFACTURES

First Term

- | | | |
|------|-----------------------------------|-------------|
| 222. | The Dairy Industries. 2 sem. hrs. | Mr. Denison |
|------|-----------------------------------|-------------|

531. Dairy Manufactures Research I. 3 sem. hrs.

Mr. Willingham

Second Term

435. Dairy and Food Inspection II. 3 sem. hrs.,
6 lec. hrs., 9 lab. hrs. Mr. Denison
532. Dairy Manufactures Research II. 3 sem. hrs. Mr. Willingham
601. Thesis Mr. Willingham

ECONOMICS AND MANAGEMENT

First Term

ECONOMICS

231. Principles of Economics. 3 sem. hrs. Mr. Sheehan
232. Principles of Economics. 3 sem. hrs. Mr. Sheehan and
Mr. Green
235. Principles of Economics. 3 sem. hrs. Mr. Green
334. Taxation. 3 sem. hrs. Mr. Clover
436. Development of Economic Doctrines. 3 sem. hrs. Mr. Wiesen
437. Current Economic Problems. 3 sem. hrs. Mr. Wiesen
438. Research in Economics and Business.
3 sem. hrs. Mr. Clover

MANAGEMENT

331. Industrial Management. 3 sem. hrs. Mr. Mize
432. Personnel Management. 3 sem. hrs. Mr. Mize

Second Term

ECONOMICS

232. Principles of Economics. 3 sem. hrs. Mr. Sheehan
336. Labor Problems. 3 sem. hrs. Mr. Sheehan
337. Economic Systems. 3 sem. hrs. Mr. Clover
438. Research in Economics and Business. 3 sem. hrs. Mr. Clover

EDUCATION AND PSYCHOLOGY

First Term

EDUCATION

131. Introduction to Education. 3 sem. hrs. Staff
234. Principles of Secondary Education. 3 sem. hrs. Mr. Garlin

- | | | |
|-------|--|--------------|
| 236. | Basic Skills in the Elementary Grades. 3 sem. hrs. | Miss True |
| 335. | The Junior High School. 3 sem. hrs. | Staff |
| 339. | Unit Teaching. 3 sem. hrs. | Mr. Jackson |
| 3314. | Duties of School Principals. 3 sem. hrs. | Staff |
| 3316. | Observation and Practice. 3 sem. hrs. | Mr. Shaver |
| 3317. | Observation and Practice. 3 sem. hrs. | Mr. McDonald |
| 420. | Sociological Principles of Education. 2 sem. hrs. | Mr. Jackson |
| 4311. | Problems of the Elementary Curriculum.
3 sem. hrs. | Miss True |
| 4316. | Workshop in Curriculum and Instruction.
3 sem. hrs. | Mr. Garlin |
| 4317. | Workshop in Curriculum and Instruction.
3 sem. hrs. | Mr. McDonald |
| 535. | Business Administration of Schools. 3 sem. hrs. | Mr. Cooper |
| 537. | Student Counseling. 3 sem. hrs. | Mr. Barnett |
| 601. | Thesis | Staff |

PSYCHOLOGY

- | | | |
|------|---|-------------|
| 230. | Introduction to Psychology. 3 sem. hrs. | Mr. Caskey |
| 333. | Measurements in Education. 3 sem. hrs. | Mr. Barnett |
| 335. | Psychology of Adolescence. 3 sem. hrs. | Mr. Shaver |
| 338. | Psychology Applied to Business. 3 sem. hrs. | Mr. Cooper |

Second Term

EDUCATION

- | | | |
|-------|--|--------------|
| 138. | Career Guidance in Education. 3 sem. hrs. | Mr. Caskey |
| 235. | High School Methods. 3 sem. hrs. | Mr. Jackson |
| 237. | The Language Arts. 3 sem. hrs. | Mr. McDonald |
| 333. | Education of Exceptional Children. 3 sem. hrs. | Miss True |
| 3310. | Children's Literature. 3 sem. hrs. | Mr. McDonald |
| 3315. | Visual-Audio Aids in Education. 3 sem. hrs. | Mr. Cooper |
| 423. | Public School Relations. 2 sem. hrs. | Mr. Garlin |
| 431. | Education in the United States. 3 sem. hrs. | Mr. Jackson |
| 432. | Public School Administration. 3 sem. hrs. | Mr. Cooper |
| 538. | Adult Education. 3 sem. hrs. | Mr. Garlin |
| 601. | Thesis. | Staff |

PSYCHOLOGY

- | | | |
|------|-------------------------------------|-------------|
| 231. | Educational Psychology. 3 sem. hrs. | Mr. Barnett |
| 331. | Child Psychology. 3 sem. hrs. | Mr. Caskey |
| 431. | Mental Testing. 3 sem. hrs. | Mr. Barnett |
| 434. | Social Psychology. 3 sem. hrs. | Miss True |

ELECTRICAL ENGINEERING

First Term

- | | | |
|-------|---|---------------------|
| 231. | Principles of Electrical Engineering. 3 sem. hrs. | Mr. Bullen |
| 221. | Electrical Engineering Laboratory. 2 sem. hrs.,
18 lab. hrs. | Mr. Bullen |
| 332. | Alternating Current Circuits. 3 sem. hrs. | Mr. Houston |
| 322. | Alternating Current Circuits Laboratory.
2 sem. hrs., 18 lab. hrs. | Staff, Mr. Houston |
| 325. | *Electronics. 2 sem. hrs., 6 lec. hrs. | Mr. Stenis |
| 323. | *Electronics Laboratory. 2 sem. hrs.,
18 lab. hrs. | Mr. Stenis |
| 4312. | Electrical Machinery. 3 sem. hrs. | Mr. Smith |
| 4212. | Electrical Machinery Laboratory. 2 sem. hrs.,
18 lab. hrs. | Mr. Smith, Mr. Lee |
| 426. | Elements of Electrical Engineering. 2 sem. hrs. | Mr. Minter |
| 438. | Elements of Electrical Engineering. 3 sem. hrs. | Mr. Lee |
| 412. | Electrical Engineering Laboratory. 1 sem. hr.
9 lab. hrs. | Mr. Minter, Mr. Lee |
| * | One-half of course completed each term. | |

Second Term

- | | | | |
|-------|---------------------------------------|------------------------------|----------------------|
| 232. | Principles of Electrical Engineering. | 3 sem. hrs. | Mr. Bullen |
| 222. | Electrical Engineering Laboratory. | 2 sem. hrs.,
18 lab. hrs. | Mr. Bullen |
| 334. | Communications Circuits. | 3 sem. hrs. | Mr. Houston
Staff |
| 324. | Communication Circuits Laboratory. | 2 sem. hrs.,
18 lab. hrs. | Mr. Houston, Staff |
| 325. | *Electronics. | 2 sem. hrs. 6 lec. hrs. | Mr. Stenis |
| 323. | *Electronics Laboratory. | 2 sem. hrs.,
18 lab. hrs. | Mr. Stenis |
| 4313. | Electrical Machinery. | 3 sem. hrs. | Mr. Smith |
| 4213. | Electrical Machinery Laboratory. | 2 sem. hrs.
18 lab. hrs. | Mr. Smith, Mr. Lee |
| 427. | Elements of Electrical Engineering. | 2 sem. hrs. | Mr. Minter |
| 438. | Elements of Electrical Engineering. | 3 sem. hrs. | Mr. Lee |
| 413. | Electrical Engineering Laboratory. | 1 sem hr.
9 lab. hrs. | Mr. Minter, Mr. Lee |
- * One-half of course completed each term.

ENGINEERING ORIENTATION

First Term

111. Engineering Orientation. 1 sem hr. Mr. Adams

ENGLISH

First Term

131. English Composition. 3 sem. hrs. Miss Green, Mrs. Carter,
Mrs. Russell
132. English Composition. 3 sem. hrs. Mrs. Wilson, Mr. Raf-
faniello, Miss Green
233. Technical Writing. 3 sem. hrs. Mr. Nall
234. Special Work on Correct Usage. 3 sem. hrs. Mr. Mills
235. Survey of English Literature. 3 sem. hrs. Mr. Camp
237. Types and Masterpieces of Literature. 3 sem. hrs. Staff
238. Types and Masterpieces of Literature. 3 sem. hrs. Staff
330. Chaucer. 3 sem. hrs. Mr. Gunn
332. History of the English Language. 3 sem. hrs. Mr. Gunn
3310. Teaching of English in Secondary School.
3 sem. hrs. Mrs. Harrison
3315. The Short Story. 3 sem. hrs. Mr. Mills
3323. Masterpieces of World Literature. 3 sem. hrs. Mr. Murphy
432. Shakespeare. 3 sem. hrs. Mr. Camp
530. Middle English Literature. 3 sem. hrs. Mr. Gunn
533. Elizabethan Drama. 3 sem. hrs. Mr. Camp

Second Term

131. English Composition. 3 sem. hrs. Miss Miles
132. English Composition. 3 sem. hrs. Mrs. Doak, Mrs. Wellborn
233. Technical Writing. 3 sem. hrs. Miss Miles
236. Survey of English Literature. 3 sem. hrs. Mrs. Doak
237. Types and Masterpieces of Literature.
3 sem. hrs. Mrs. Wellborn, Miss Teague
238. Types and Masterpieces of Literature.
3 sem. hrs. Mr. Strout, Mr. Gates, Mr. Smallwood
3320. American Drama. 3 sem. hrs. Mr. Smallwood
433. Shakespeare. 3 sem. hrs. Mr. Gates
435. English Romanticism. 3 sem. hrs. Mr. Strout
4310. Major Victorian Poets. 3 sem. hrs. Miss Teague
533. Elizabethan Drama. 3 sem. hrs. Mr. Gates
538. Studies in the English Romantic Poets.
3 sem. hrs. Mr. Strout

FOODS AND NUTRITION

First Term

FOODS

132. Elementary Food Preparation. 3 sem. hrs.,
6 lec. hrs., 9 lab. hrs. Miss Hattox

NUTRITION

334. Dietetics. 3 sem. hrs., 6 lec. hrs., 9 lab. hrs. Mrs. Michie
Miss Hattox
433. Nutrition of Children. 3 sem. hrs. Mrs. Michie

Second Term

FOODS

131. Elementary Food Preparation and Service. 3 sem. hrs.,
6 lec. hrs., 9 lab. hrs. Miss Buttrill
332. Food Purchasing. 3 sem. hrs., 6 lec. hrs.,
9 lab. hrs. Miss Buttrill

NUTRITION

333. Elementary Nutrition and Food Selection.
3 sem. hrs. Miss Weeks

FOREIGN LANGUAGES

First Term

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. Mrs. Tucker

- | | | |
|-------|--|--------------|
| 231. | Grammar, Reading, Composition, and Conversation.
3 sem. hrs. | Mr. Hamilton |
| 333. | A Reading Course for Third-Year Students.
3 sem. hrs. | Mrs. Tucker |
| 437. | Advanced Grammar, Composition, and Style.
3 sem. hrs. | Mr. Hamilton |
| 4320. | Contemporary Novel. 3 sem. hrs. | Mr. Qualia |
| 5312. | Studies in Spanish and Spanish-American
Literature. 3 sem. hrs. | Mr. Qualia |
| 601. | Thesis. | Staff |

Second Term

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. Strehli |
| 232. | Grammar, Reading, Composition, and Conversation.
3 sem. hrs. | Mr. Strehli |
| 334. | A Reading Course for Third-Year Students.
3 sem. hrs. | Mrs. Gates |
| 435. | Teachers' Course in Methods of Teaching
Spanish. 3 sem. hrs. | Mr. Reynolds |
| 4325. | Readings in Latin-American Literature.
3 sem. hrs. | Mrs. Gates |
| 5313. | Studies in Spanish and Spanish-American
Literature. 3 sem. hrs. | Mrs. Gates |
| 601. | Thesis. | Staff |

GEOLOGY

First Term

- | | | |
|--------|---|-------------|
| 131-2. | General Geology. 6 sem. hrs., 18 lec. hrs.,
12 lab. hrs. | Mr. Sidwell |
| 231. | Mineralogy. 3 sem. hrs., 3 lec. hrs.,
18 lab. hrs. | Mrs. Keesee |

234. Elementary Structural Geology. 3 sem. hrs., Mrs. Keesee
 333-4. Petrography and Petrology. 6 sem. hrs.,
 6 lec. hrs., 36 lab. hrs. Mr. Alexander
 335-6. General Paleontology. 6 sem. hrs., 12 lec. hrs.,
 18 lab. hrs. Staff
 363. Field Geology. 6 sem. hrs. , Given in the field
 433-4. Structural Geology. Petroleum Geology. 6 sem. hrs.
 18 lec. hrs. Mr. Renfroe
 531. Advanced Sedimentation. 3 sem. hrs. Mr. Sidwell

Second Term

- 333-4. Petrography and Petrology. 6 sem. hrs.,
 6 lec. hrs., 36 lab. hrs. Mr. Patton
 335-6. General Paleontology. 6 sem. hrs.,
 12 lec. hrs., 18 lab. hrs. Staff
 363. Field Geology. 6 sem. hrs. Given in the field
 431-2. Geomorphic and Dynamic Geology. Stratigraphic
 and Historical Geology. 6 sem. hrs.,
 12 lec. hrs., 18 lab. hrs. Mr. Renfroe
 437-8. Sedimentation. 6 sem. hrs., 18 lec. hrs. Mr. Sidwell
 532. Advanced Sedimentation. 3 sem. hrs. Mr. Sidwell

GOVERNMENT

First Term

230. American Government, Organization. 3 sem. hrs.
 Mr. Kennedy, Mr. Dauley
 231. American Government, Functions. 3 sem. hrs.
 Mr. Mack, Mr. Jackson
 331. Local Government. 3 sem. hrs. Mr. Dauley
 334. American Political Parties. 3 sem. hrs. Mr. Jackson
 335. American Foreign Relations. 3 sem. hrs. Mr. Mack
 431. American Constitutional Law. 3 sem. hrs. Mr. Davis
 531. Seminar. 3 sem. hrs. Mr. Davis

Second Term

230. American Government, Organization. 3 sem. hrs.
 Mr. Jackson, Mr. Dauley
 231. American Government, Functions. 3 sem. hrs.
 Mr. Dauley, Mr. Abernethy
 332. Local Administration. 3 sem. hrs. Mr. Jackson
 3312. Government and Labor. 3 sem. hrs. Mr. Abernethy
 432. American Constitutional Law. 3 sem. hrs. Mr. Davis
 438. World Politics. 3 sem. hrs. Mr. Davis
 601. Thesis. Staff

HISTORY AND ANTHROPOLOGY

First Term

HISTORY

- | | |
|---|-------------|
| 131. History of Civilization. 3 sem. hrs. | Mr. Kinchen |
| 231. Economic and Political History of the U. S.
3 sem. hrs. | Staff |
| 3311. The Canadian Dominion. 3 sem. hrs. | Mr. Kinchen |
| 4312. Reconstruction. 3 sem. hrs. | Mr. Wallace |
| 4320. Social History of Texas. 3 sem. hrs. | Mr. Holden |
| 601. Thesis. | Mr. Wallace |

ANTHROPOLOGY

- | | |
|---|------------|
| 531. Seminar in Anthropology. 3 sem. hrs. | Mr. Holden |
|---|------------|

Second Term

HISTORY

- | | |
|---|------------|
| 132. History of Civilization. 3 sem. hrs. | Mr. Eaves |
| 232. Economic and Political History of the U. S.
3 sem. hrs. | Staff |
| 3314. Europe since 1919. 3 sem. hrs. | Mr. Eaves |
| 4310. Expansion of the United States. 3 sem. hrs. | Mr. McKay |
| 530. Seminar in History. 3 sem. hrs. | Mr. Holden |
| 601. Thesis. | Staff |

ANTHROPOLOGY

- | | |
|--|------------|
| 336-7. Mexican Archaeology. 6 sem. hrs. Field
course in Mexico. | Mr. Pearce |
|--|------------|

HOME ECONOMICS EDUCATION

First Term

- | | |
|---|-----------------|
| 331. Principles of Teaching Home Economics.,
3 sem. hrs. | Mrs. Adams |
| 434. Methods of Teaching Applied Arts in the
Homemaking Curriculum. 3 sem hrs. | Miss Poindexter |
| 536. Problems. 3 sem. hrs. | Mrs. Adams |

Second Term

- | | | |
|------|--|--------------|
| 431. | Methods of Teaching Home Economics.
3 sem. hrs. | Miss Nesbitt |
| 432. | Problems in Teaching Clothing. 3 sem. hrs. | Miss Erwin |
| 435. | Methods of Adult Leadership. 3 sem. hrs. | Miss Nesbitt |

HOME MANAGEMENT

Second Term

- | | | |
|------|---|-----------|
| 332. | General Home Management. 3 sem. hrs. | Miss Drew |
| 432. | Residence in Home Management House. 3 sem. hrs. | Miss Drew |

INDUSTRIAL ENGINEERING AND ENGINEERING DRAWING

First Term

ENGINEERING DRAWING

- | | | |
|------|--|--------------|
| 121. | Engineering Drawing. 2 sem. hrs., 18 lab. hrs. | Staff |
| 131. | Engineering Drawing. 3 sem. hrs.,
3 lec. hrs., 18 lab. hrs. | Mr. Perryman |
| 221. | Machine Drawing. 2 sem. hrs., 18 lab. hrs. | Staff |
| 222. | Descriptive Geometry. 2 sem. hrs.,
3 lec. hrs., 9 lab. hrs. | Mr. Perryman |

INDUSTRIAL ENGINEERING

- | | | |
|------|--|------------|
| 316. | Personnel Administration. 1 sem. hr. | Mr. Penick |
| 332. | Management-Production Planning and
Control. 3 sem. hrs. | Staff |
| 436. | Principles of Engineering Economics. 3 sem. hrs. | Mr. Penick |

Second Term

ENGINEERING DRAWING

- | | | |
|------|--|---------------|
| 111. | Engineering Drawing. 1 sem. hr., 9 lab. hrs. | Staff |
| 121. | Engineering Drawing. 2 sem. hrs., 18 lab. hrs. | Staff |
| 131. | Engineering Drawing. 3 sem. hrs., 3 lec. hrs.,
18 lab. hrs. | Mrs. Atkinson |
| 221. | Machine Drawing. 2 sem. hrs., 18 lab. hrs. | Staff |
| 222. | Descriptive Geometry. 2 sem. hrs.,
3 lec. hrs., 9 lab. hrs. | Mrs. Atkinson |
| 322. | Advanced Machine Drawing. 2 sem. hrs., 18 lab. hrs. | Staff |

INDUSTRIAL ENGINEERING

332. Management-Production Planning and Control.
3 sem. hrs. Mr. St. Clair
435. Industrial Safety Engineering. 3 sem. hrs. Mr. St. Clair

JOURNALISM

First Term

331. Special Feature Articles. 3 sem. hrs. Mr. Horne
- 336, 337. Advanced Reporting. 3 sem. hrs. Mr. Horne
- 338, 339. News Editing. 3 sem. hrs. Mr. Horne
3312. Basic Photography. 3 sem. hrs. Miss Watson
3314. Advanced Press Photography. 3 sem. hrs. Miss Watson
432. High School Publications. 3 sem. hrs. Mr. Horne

Second Term

335. History of American Journalism. 3 sem. hrs. Mrs. Allen
434. Editorial Writing. 3 sem. hrs. Mrs. Allen

MARKETING AND SECRETARIAL ADMINISTRATION

First Term

MARKETING

332. Principles of Marketing. 3 sem. hrs. Mr. Golden
333. Marketing Problems. 3 sem. hrs. Mr. Golden
346. Statistics. 4 sem. hrs. Mr. Blackwell

SECRETARIAL ADMINISTRATION

131. Elementary Shorthand. 3 sem. hrs. Mrs. Quicksall
235. Intermediate Shorthand. 3 sem. hrs. Mrs. Terrell
321. Office Machines. 2 sem. hrs. Staff
333. Business Correspondence. 3 sem. hrs. Mrs. Quicksall
432. Teaching Commercial Subjects. 3 sem. hrs. Mrs. Terrell
434. Punch Card Machines. 3 sem. hrs. Staff

Second Term

MARKETING

332. Principles of Marketing. 3 sem. hrs. Mr. Blackwell
346. Statistics. 4 sem. hrs. Mr. Blackwell
432. Economics of Advertising. 3 sem. hrs. Mr. Golden

- | | |
|---|--------------|
| 433. Salesmanship. 3 sem. hrs. | Mr. Leifeste |
| 435. Business Cycles and Forecasts. 3 sem. hrs. | Mr. Golden |
| 436. Retail Store Management. 3 sem. hrs. | Mr. Leifeste |

SECRETARIAL ADMINISTRATION

- | | |
|---|-------------|
| 236. Intermediate Shorthand. 3 sem. hrs. | Miss Alfrey |
| 333. Business Correspondence. 3 sem. hrs. | Miss Alfrey |

MATHEMATICS

First Term

- | | |
|---|----------------------------------|
| 121. Algebra. 2 sem. hrs. | Mr. Michie |
| 122. Algebra. 2 sem. hrs. | Mr. Lindsay |
| 130. Algebra. 3 sem. hrs. | Miss McGlothlin |
| 131. Trigonometry. 3 sem. hrs. | Mrs. Rowland, Mr. Thompson |
| 132. Analytic Geometry. 3 sem. hrs. | Mrs. Rowland, Mrs. Holland |
| 137. Commercial Algebra. 3 sem. hrs. | Mrs. Holland,
Miss McGlothlin |
| 138. Mathematics of Finance. 3 sem. hrs. | Miss May |
| 335. Differential Calculus. 3 sem. hrs. | Mr. Hazlewood
Mr. Michie |
| 233. Calculus Applications. 3 sem. hrs. | Mr. Underwood,
Mr. Lindsay |
| 238. Statistics. 3 sem. hrs. | Miss May |
| 321. Differential Equations. 2 sem. hrs. | Mr. Hazlewood |
| 434. Advanced Calculus. 3 sem. hrs. | Mr. Underwood |
| 534. Synthetic Projective Geometry. 3 sem. hrs. | Mr. Thompson |
| 601. Thesis. | Staff |

Second Term

- | | |
|--|----------------------------|
| 121. Algebra. 2 sem. hrs. | Mr. Heineman |
| 122. Algebra. 2 sem. hrs. | Mr. Parker |
| 130. Algebra. 3 sem. hrs. | Mrs. Roberts |
| 131. Trigonometry. 3 sem. hrs. | Mr. Thomas |
| 132. Analytic Geometry. 3 sem. hrs. | Mr. Woodward |
| 138. Mathematics of Finance. 3 sem. hrs. | Mrs. Roberts |
| 233. Calculus Applications. 3 sem. hrs. | Mr. Parker |
| 321. Differential Equations. 2 sem. hrs. | Mr. Thomas |
| 336. Integral Calculus. 3 sem. hrs. | Mr. Woodward, Mr. Heineman |
| 433. Theory of Equations. 3 sem. hrs. | Mr. Sparks |
| 435. Advanced Calculus. 3 sem. hrs. | Mr. Sparks |
| 601. Thesis. | Staff |

MECHANICAL ENGINEERING

First Term

221. Engineering Problems. 2 sem. hrs., 3 lec. hrs.,
6 lab. hrs. Mr. Williams
241. Mechanism and Dynamics. 4 sem. hrs., 6 lec. hrs.
18 lab. hrs. Mr. Helmers
311. Pattern Shop. 1 sem. hr., 9 lab. hrs. Mr. Hardgrave
Mr. Ford
312. Foundry Practice. 1 sem. hr., 9 lab. hrs. Mr. Hardgrave
Mr. Ford
313. Machine Shop. 1 sem. hr., 9 lab. hrs. Mr. Hardgrave
Mr. Ford
317. Heat Engineering Laboratory. 1 sem. hr.,
9 lab. hrs. Mr. Lauderdale, Staff
330. Thermodynamics. 3 sem. hrs. Mr. Godeke
334. Elementary Thermodynamics. 3 sem. hrs.
Mr. Powers, Mr. Williams
337. Metallurgy. 3 sem. hrs. Mr. Godeke

Second Term

314. Machine Shop. 1 sem. hr., 9 lab. hrs. Mr. Hardgrave
Mr. Ford
315. Heat Treating of Steel. 1 sem. hr., 9 lab. hrs. Mr. Hardgrave
Mr. Ford
316. Welding Practice. 1 sem. hr., 9 lab. hrs. Mr. Hardgrave
Mr. Ford
318. Heat Engineering Laboratory. 1 sem. hr.,
9 lab. hrs. Mr. Helmers, Staff
322. Elementary Machine Design. 2 sem. hrs. Mr. Powers
331. Thermodynamics. 3 sem. hrs. Mr. Godeke
335. Heat Engines. 3 sem. hrs. Mr. Williams, Mr. Godeke
341. Steam Power Plant Engineering. 4 sem. hrs. Mr. Powers
431. Power Plant Laboratory. 3 sem. hrs.,
18 lab. hrs. Mr. Lauderdale

MUSIC AND BAND

First Term

MUSIC

- 113-4. Chorus, including elementary music, time beating,
notation, etc. 1 sem. hr. each. Mr. Blitz
(Sophomore, junior and senior courses offered in sequence)

- 115-6. Applied Music, voice or instrumental private instruction, 1 sem. hr. each. Mr. Blitz and Staff
(Sophomore, junior and senior courses offered in sequence)
- 125-6. Applied Music. 2 sem. hrs. each. Mr. Blitz and Staff
335. Music History and Appreciation. 3 sem. hrs. Mr. Blitz
431. Strings. 3 sem. hrs. Mr. Blitz

Second Term

- 115-6. Applied Music. 1 sem. hr. each. Staff
(Sophomore, junior and senior courses offered in sequence)
- 125-6. Applied Music. 2 sem. hrs. each. Staff
(Sophomore, junior and senior courses offered in sequence)
231. Public School Music. 3 sem. hrs. Staff
336. Music History and Appreciation. 3 sem. hrs. Staff

BAND

First Term

115. Band. 1 sem. hr. Mr. Haddon and Staff
116. Band. 1 sem. hr. Mr. Haddon and Staff
125. Band. 2 sem. hrs. Mr. Wiley and Staff
126. Band. 2 sem. hrs. Mr. Wiley and Staff
215. Band. 1 sem. hr. Mr. Haddon and Staff
216. Band. 1 sem. hr. Mr. Haddon and Staff
225. Band. 2 sem. hrs. Mr. Wiley and Staff
226. Band. 2 sem. hrs. Mr. Wiley and Staff
315. Band. 1 sem. hr. Mr. Haddon and Staff
316. Band. 1 sem. hr. Mr. Haddon and Staff
325. Band. 2 sem. hrs. Mr. Wiley and Staff
326. Band. 2 sem. hrs. Mr. Wiley and Staff
415. Band. 1 sem. hr. Mr. Haddon and Staff
416. Band. 1 sem. hr. Mr. Haddon and Staff
425. Band. 2 sem. hrs. Mr. Wiley and Staff
426. Band. 2 sem. hrs. Mr. Wiley and Staff
321. Band Conducting and Methods. 2 sem. hrs. Mr. Wiley and Staff
421. Band Conducting and Methods. 2 sem. hrs. Mr. Wiley and Staff
422. Band Conducting and Methods. 2 sem. hrs. Mr. Wiley and Staff
431. Administration of the School Band. 3 sem. hrs. Staff
432. A Survey of Teaching Materials for Band. 3 sem. hrs. Staff
521. Band Conducting for Graduate Students. 2 sem. hrs. Mr. Wiley

- | | | |
|------|--|-----------|
| 522. | Applied Band. 2 sem. hrs. | Mr. Wiley |
| 523. | Symphonies. 2 sem. hrs. | Mr. Wiley |
| 524. | Symphonies and Symphonic Poems.
2 sem. hrs. | Mr. Wiley |

PETROLEUM ENGINEERING

First Term

- | | | |
|------|--|-------------|
| 331. | Petroleum Development Methods. 3 sem. hrs. | Mr. Johnson |
|------|--|-------------|

Second Term

- | | | |
|------|--|-------------|
| 333. | Petroleum Production Methods. 3 sem. hrs.,
6 lec. hrs., 9 lab. hrs. | Mr. Johnson |
|------|--|-------------|

PHILOSOPHY AND SOCIOLOGY

First Term

PHILOSOPHY

- | | | |
|------|---------------------|------------|
| 238. | Ethics. 3 sem. hrs. | Mr. Little |
|------|---------------------|------------|

SOCIOLOGY

- | | | |
|------|--|------------|
| 230. | Introduction to Sociology. 3 sem. hrs. | Miss Smith |
| 332. | Marriage. 3 sem. hrs. | Mr. Little |
| 433. | Criminology. 3 sem. hrs. | Miss Smith |

Second Term

PHILOSOPHY

- | | | |
|------|------------------------------------|------------|
| 332. | History of Philosophy. 3 sem. hrs. | Mr. Little |
|------|------------------------------------|------------|

SOCIOLOGY

- | | | |
|------|--|------------|
| 230. | Introduction to Sociology. 3 sem. hrs. | Mr. Little |
| 233. | Current Social Problems. 3 sem. hrs. | Staff |

PHYSICAL EDUCATION FOR MEN

First Term

- | | | |
|-------|--|--------------|
| 113. | Physical Education. 1 sem. hr., 6 lab. hrs. | Mr. Jennings |
| 213. | Physical Education. 1 sem. hr., 6 lab. hrs. | Mr. Robison |
| 3311. | Methods of Teaching Physical Education in High
School. 3 sem. hrs., 9 lec. hrs. | Mr. Jennings |
| 431. | Theory and Practice of Coaching. 3 sem. hrs.,
9 lec. hrs. | Mr. Morris |

Second Term

- | | | |
|------|--|--------------|
| 114. | Physical Education. 1 sem. hr., 6 lab. hrs. | Mr. Jennings |
| 214. | Physical Education. 1 sem. hr., 6 lab. hrs. | Mr. Morris |
| 432. | Theory and Practice of Coaching. 3 sem. hrs.,
9 lec. hrs. | Mr. Robison |

PHYSICAL EDUCATION FOR WOMEN

First Term

- | | | |
|-------|---|---------------|
| 212. | Tennis. 1 sem. hr. | Mrs. Langford |
| 2110. | Archery. 1 sem. hr. | Miss Rainey |
| 218. | Volleyball. 1 sem. hr. | Miss Rainey |
| 230. | Principles of Health Education. 3 sem. hrs. | Mrs. Langford |
| 435. | Modern Trends in Physical Education.
3 sem. hrs. | Miss Rainey |

Second Term

- | | | |
|------|---|---------------|
| 212. | Tennis. 1 sem. hr. | Mrs. Richards |
| 217. | Folk Dancing. 1 sem. hr. | Mrs. Richards |
| 233. | Methods in Physical Education for the Elementary
School Teacher. 3 sem. hrs. | Mrs. Richards |

PHYSICS

First Term

- | | | |
|------|---|---|
| 131. | Elements of College Physics. 3 sem. hrs.
9 lec. hrs., 6 lab. hrs. | Mr. Merrymon, Mr. Elliott,
Mr. Steffy, and Staff |
| 132. | Elements of College Physics. 3 sem. hrs., 9 lec. hrs.,
6 lab. hrs. | Mr. Steffy |
| 215. | Physical Measurements. 1 sem. hr., 9 lab. hrs. | Mr. Day and
Staff |
| 216. | Physical Measurements. 1 sem. hr., 9 lab. hrs. | Mr. Schmidt |
| 235. | Engineering Physics. 3 sem. hrs., 9 lec. hrs. | Mr. Day |
| 236. | Engineering Physics. 3 sem. hrs., 9 lec. hrs. | Mr. Schmidt |
| 312. | Modern Physics Laboratory. 1 sem. hr.,
9 lab. hrs. | Mr. Elliott |
| 331. | Light. 3 sem. hrs., 6 lec. hrs., 6 lab. hrs. | Mr. Merrymon |
| 337. | Introduction to Modern Physics. 3 sem. hrs.,
9 lec. hrs. | Mr. Elliott |

Second Term

- | | | |
|------|---|-----------------------------------|
| 131. | Elements of College Physics. 3 sem. hrs.,
9 lec. hrs., 6 lab. hrs. | Staff |
| 132. | Elements of College Physics. 3 sem. hrs.,
9 lec. hrs., 6 lab. hrs. | Mr. Steffy, Mr. Elliott and Staff |
| 215. | Physical Measurements. 1 sem. hr., 9 lab. hrs. | Staff |
| 216. | Physical Measurements. 1 sem. hr., 9 lab. hrs. | Staff |
| 235. | Engineering Physics. 3 sem. hrs., 9 lec. hrs. | Mr. Steffy |
| 236. | Engineering Physics. 3 sem. hrs., 9 lec. hrs. | Mr. Day |
| 313. | Modern Physics Laboratory. 1 sem. hr., 9 lab. hrs. | Mr. Elliott |
| 338. | Introduction to Modern Physics. 3 sem. hrs.,
9 lec. hrs. | Mr. Elliott |

PLANT INDUSTRY

First Term

AGRICULTURAL ENGINEERING

- | | | |
|------|--|----------------------------|
| 321. | Farm Shop. 2 sem. hrs., 3 lec. hrs.,
9 lab. hrs. | Mr. Sullivan
Mr. Archie |
| 322. | Farm Shop. 2 sem. hrs., 3 lec. hrs.
9 lab. hrs. | Mr. Sullivan
Mr. Archie |
| 411. | Soil Management Laboratory. 1 sem. hr.,
9 lab. hrs. | Mr. Sullivan
Mr. Archie |

AGRONOMY

- | | | |
|------|---|----------------------------|
| 131. | The Fundamentals of Crop Production. 3 sem. hrs.,
6 lec. hrs., 9 lab. hrs. | Mr. Leidigh and Mr. Morrow |
| 221. | Soils. 2 sem. hrs. | Mr. Burnett |
| 331. | Forage and Pasture Crops. 3 sem. hrs.,
6 lec. hrs., 9 lab. hrs. | Mr. Leidigh |
| 422. | Soil Management. 2 sem. hrs. | Mr. Young |

PLANT INDUSTRY

- | | | |
|------|--|-------------|
| 331. | Plant Insects and Diseases and Their Control.
3 sem. hrs., 6 lec. hrs., 9 lab. hrs. | Mr. Morrow |
| 441. | Plant Production. 4 sem. hrs., 9 lec. hrs.,
9 lab. hrs. | Mr. Burnett |
| 514. | Graduate Seminar. 1 sem. hr. | Mr. Young |
| 532. | Plant Industry Problems. 3 sem. hrs. | Mr. Young |
| 535. | Research Methods. 3 sem. hrs. | Mr. Young |
| 601. | Thesis. | Mr. Young |

Second Term

HORTICULTURE

131. Principles of Horticulture and Plant Propagation.
3 sem. hrs., 6 lec. hrs., 9 lab. hrs. Mr. LaGasse
231. Vegetable Gardening. 3 sem. hrs. 6 lec. hrs.,
9 lab. hrs. Mr. LaGasse and Mr. Yocum

PLANT INDUSTRY

341. Principles of Genetics. 4 sem. hrs., 9 lec. hrs.,
9 lab. hrs. Mr. Yocum
533. Plant Industry Problems. 3 sem. hrs. Mr. Yocum
601. Thesis. Mr. Yocum

SPEECH

First Term

131. Fundamentals of Speech. 3 sem. hrs. Miss Lindell
338. Business and Professional Speech. 3 sem. hrs. Mr. Ward
432. Speech Correction. 3 sem. hrs. Miss Lindell

Second Term

233. Voice and Diction. 3 sem. hrs. Miss Pendleton
335. Radio Speech. 3 sem. hrs. Miss Pendleton
338. Business and Professional Speech. 3 sem. hrs. Mr. Ward

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
311. The Bible, Its Origin and Growth. 1 sem. hr. Mr. Wolber

*—Sponsored and supported by the Baptist General Convention of Texas.