

BULLETIN
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College**

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SUMMER SESSION

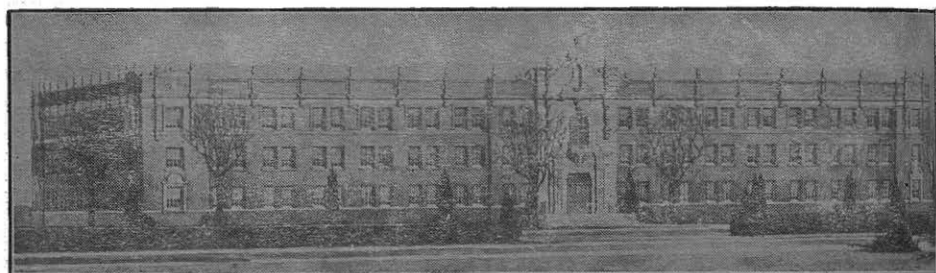
FIRST TERM, JUNE 7 TO JULY 18

SECOND TERM, JULY 19 TO AUGUST 25

1934

LUBBOCK, TEXAS

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The above is a sketch of one of the two new dormitories now under construction on the college campus, one for women and one for men, each dormitory with a capacity of approximately 320 students. The women's dormitory is located approximately 550 feet south of the main drive entering the campus from Broadway. Slightly northwest of it is the Home Economics Building and slightly northeast of it is the Home Management House, thus making a fine area for the development of a lawn flanked by these three buildings as a center of women's work on the campus. The men's dormitory lies approximately 250 feet north of the main drive into the campus from Broadway. It is anticipated that both dormitories will be completed and ready to be occupied by the beginning of the fall semester.

SUMMER SESSION CALENDAR

June 6, 7. Wednesday, Thursday. Entrance examinations.

June 7. Thursday. Registration for summer session.

June 8. Friday. Classes begin at seven o'clock, a. m.

June 11. Monday. Last day to enroll for first term.

June 11. Monday. Last day to add or change a course.

July 4. Wednesday. Not a holiday.

July 7. Saturday. A holiday. Personally conducted trip to the Carlsbad Caverns for those who are interested. The annual Texas Tech-Carlsbad Caverns Day, the guide fee being remitted by the U. S. National Park Service.

July 18. Wednesday. First term closes.

July 19. Thursday. Registration for second term.

July 20. Friday. Classes begin.

July 23. Monday. Last day to enroll for second term.

July 23. Monday. Last day to add or change a course.

August 24. Friday, 8:15 p. m. Summer school commencement and graduation exercises.

August 25. Saturday. Summer school closes.

CONTENTS

	Page
Board of Directors	4
Officers of Administration	4
Officers of Instruction	5
Summer School Committee	13
"Looking Forward"	14
Summer Session 1934, General Information	16
Degrees Offered.....	21
Entrance	23
Expenses	26
Medical Service	27
General Regulations	29
Graduate Study	29
Department of Extension	32
Outline of Courses:	
Agriculture	35
Engineering	40
Home Economics	45
Arts and Sciences	48

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OFFICERS OF ADMINISTRATION

The first date after the title indicates the year of first appointment to any position in the institution; the second, the year of appointment to present rank.

BRADFORD KNAPP, B. S., LL. B., D. Agri., *President*, 1932.

OTTO VINCENT ADAMS, B. S. in C. & I. E., M. S. E., *Dean of the Division of Engineering*, 1927, 1933.

ARTHUR HENRY LEIDIGH, B. S., M. S., *Dean of the Division of Agriculture*, 1925.

JAMES MARCUS GORDON, B. A., M. A., LL. D., *Dean of Division of Arts and Sciences and Dean of Men*, 1925, 1933.

MARGARET WATSON WEEKS, B. S., M. S., *Dean of the Division of Home Economics*, 1925.

MARY WOODWARD DOAK, B. A., M. A., *Dean of Women*, 1925.

WILLIAM THOMAS GASTON, *Business Manager and Secretary of Board of Directors*, 1929.

WARREN PERRY CLEMENT, B. A., M. A., *Registrar*, 1926, 1927, 1933.

WILLIAM BRYAN GATES, B. S., M. A., Ph. D., *Assistant Dean of the Division of Arts and Sciences*, 1925, 1933.

OFFICERS OF INSTRUCTION

The first date after the title indicates the year of first appointment to any position in the institution; the second, the year of appointment to present rank.

BRADFORD KNAPP, *President*, 1932.

B. S., Vanderbilt; LL. B., Michigan; D. Agr., Maryland.

WILLIAM HENRY ABBITT, *Professor of Physics*, 1926.

B. A., Virginia; Ph. D., Chicago.

OTTO V. ADAMS, *Dean of Engineering and Professor of Civil Engineering*, 1927, 1933.

B. S. in C. & I. E., Colorado Agricultural College; M. S. E., Michigan.

JAMES G. ALLEN, *Assistant Professor of English*, 1927, 1931.

B. A., Southern Methodist University; M. A., Harvard.

VIRGIL BALLARD, *Associate Professor of Physical Education for Men*, 1934.

B. A., Austin College.

ALBERT BARNETT, *Professor of Education*, 1933.

B. S., M. A., Ph. D., Peabody College.

CHARLES V. BULLEN, *Professor and Head Department of Electrical Engineering*, 1932.

B. S. in E. E., Texas; M. S. in E. E., Massachusetts Institute of Technology.

MRS. EDNA WALKER BUSTER, *Assistant Professor of Clothing and Textiles*, 1927, 1930.

B. S., College of Industrial Arts; M. A., Columbia.

ALLAN LORAIN CARTER, *Professor and Head Department of English*, 1927.

B. A., Clark; M. A., Northwestern; Ph. D., Pennsylvania.

PETER WILLIS CAWTHON, *Professor and Head Department of Physical Education for Men*, 1930.

Southwestern University.

LLOYD C. CHRISTIANSON, *Instructor in Mathematics*, 1928, 1931.

B. A., Westminster; M. A., Missouri.

BENJAMIN FRANKLIN CONDRA, JR., *Professor and Head Department of Economics and Business Administration*, 1926, 1927.

B. A., Ouachita; M. A., Chicago.

WILLIAM MOORE CRAIG, *Professor of Chemistry*, 1926.

B. A., M. A., Southwestern; M. A., Texas; Ph. D., Harvard.

HARRY M. CRAIN, *Instructor in Journalism*, 1934.

B. A., Bethel; M. A., Texas Technological College.

ALBERT BENJAMIN CUNNINGHAM, *Associate Professor of English and Philosophy*, 1929, 1930.

B. A., Muskingum; B. D., Drew University; M. A., Ph. D., New York.

MRS. GEORGIA WILSON DINGUS, *Assistant Professor of German*, 1929, 1931.

B. A., Texas; M. A., Texas Technological College.

MRS. MARY WOODWARD DOAK, *Dean of Women and Professor of English*, 1925.

B. A., Texas; M. A., Texas Technological College.

BONNIE K. DYSART, *Associate Professor of Education*, 1927, 1928

B. A., M. A., Texas.

CHARLES DUDLEY EAVES, *Professor of History*, 1925.

B. A., Texas; M. A., Chicago.

JOHN ORVAL ELLSWORTH, *Professor and Head Department of Agricultural Economics and Farm Management*, 1928.

B. S., Utah A. & M.; M. S., Ph. D., Cornell.

MABEL DEANE ERWIN, *Professor and Head Department of Clothing and Textiles*, 1926.

B. S., Purdue; M. A., Columbia.

ARTHUR WILSON EVANS, *Professor and Head Department of Education and Psychology*, 1925.

B. A., Oxford College; M. A., Ph. D., Texas.

GUS L. FORD, *Professor and Head Department of History*, 1925, 1933.

B. A., M. A., Southern Methodist University.

RUPERT WINTHROP FOWLER, *Associate Professor of English*, 1926.

B. A., Texas; M. A., Harvard.

RAYMOND ERNEST GARLIN, *Professor of Education*, 1927.

B. A., M. A., Ph. D., Texas.

WILLIAM BRYAN GATES, *Associate Professor of English and Assistant Dean of Division of Arts and Sciences*, 1925, 1933.

B. S., Millsaps; M. A., Vanderbilt; M. A., Michigan; Ph. D., Pennsylvania.

MRS. EUNICE J. GATES, *Assistant Professor of Spanish*, 1925, 1931.

B. A., M. A., Southwestern; M. A., Michigan; Ph. D., Pennsylvania.

ENOCH FRANKLIN GEORGE, *Professor and Head Department of Physics*, 1925.

B. S., Valparaiso University; B. A., M. A., West Virginia; Ph. D., Ohio.

JOHNNYE GILKERSON, *Associate Professor and Head Department of Physical Education for Women*, 1925, 1927, 1934.

B. B. A., Texas; M. A., University of Southern California.

LUCILLE AVO POWELL GILL, *Instructor in English*, 1926.

B. A., M. A., Texas.

ROBERT CABANISS GOODWIN, *Professor and Head Department of Chemistry*, 1930.

B. A., Howard Payne; M. A., Texas; Ph. D., Harvard.

JAMES MARCUS GORDON, *Dean of Division of Arts and Sciences and Dean of Men*, 1925, 1933.

B. A., Trinity; M. A., Chicago; LL. D., Trinity.

FRED G. HARBAUGH, *Assistant Professor of Animal Husbandry*, 1927.

B. S., D. V. M., Iowa State College.

JOHN COYNE HARDGRAVE, *Assistant Professor of Mechanical Engineering*, 1926, 1933.

MAURICE EARL HEARD, *Assistant Professor of Textile Engineering*, 1928, 1932.

B. S. in T. E., Texas Technological College.

ELLIS RICHARD HEINEMAN, *Assistant Professor of Mathematics*, 1928, 1930.

B. A., M. A., Wisconsin.

WILLIAM FRANK HELWIG, *Associate Professor of Electrical Engineering*, 1928, 1933.

B. S. in E. E., Minnesota; M. S., Texas; E. E., Minnesota.

CARL HENNINGER, *Associate Professor of Modern Languages*, 1926, 1929.

B. A., Indiana; M. A., Illinois.

WILLIAM CURRY HOLDEN, *Professor of History and Anthropology and Director of Archaeological Research*, 1929, 1933.

B. A., M. A., Ph. D., Texas.

CECIL HORNE, *Assistant Professor of Journalism and Head of Information Bureau*, 1926, 1929.

B. A., Baylor; B. A., Yale.

WILLIAM ALBERT JACKSON, *Professor and Head Department of Government*, 1925.

B. A., Baylor; M. A., Chicago; Ph. D., Iowa.

ADA VIVIAN JOHNSON, *Assistant Professor of Foods and Home Economics Education*, 1928, 1930.

B. S., Southwest Texas State Teachers College; M. A., Columbia.

FLORIAN ARTHUR KLEINSCHMIDT, *Professor and Head Department of Architecture and Allied Arts*, 1928.

B. S. in Arch., Minnesota; M. in Arch., Harvard; Diplome d'Architecture, Ecole des Beaux Arts Americaine, Fontainebleau, France.

LONNIE LANGSTON, *Assistant Professor of Mathematics*, 1928, 1930.

B. A., Furman; M. A., South Carolina.

BESSIE BEAKLEY LEAGUE, *Associate Professor of Biology*, 1926, 1927.

B. A., M. A., Ph. D., Texas.

ARTHUR HENRY LEIDIGH, *Dean of Agriculture and Professor of Agronomy*, 1925.

B. S., Kansas State Agricultural College; M. S., Texas A. & M.

RALPH ELTON LEWIS, *Instructor in Mechanical Engineering*, 1931.

B. S. in M. E., Iowa; M. S. in M. E., Illinois.

JOSEPHINE LOONEY, *Instructor in Clothing and Textiles*, 1933.

B. S., Minnesota; M. A., Columbia.

JONNIE HEMPHILL MCCRERY, *Professor and Head Department of Foods and Nutrition*, 1925.

B. S., M. A., Columbia.

FLORA POWELL MCGEE, *Associate Professor of English*, 1925.

B. A., Colorado College; M. A., Peabody College.

SETH SHEPARD MCKAY, *Professor of History*, 1928.

B. A., M. A., Texas; Ph. D., Pennsylvania.

CLARENCE SIMPSON MAST, *Professor of Physics*, 1925.

B. S., M. A., Ohio Wesleyan University.

JAMES NEWTON MICHIE, *Professor and Head Department of Mathematics*, 1925.

B. S. in Engineering, Virginia; M. A., Michigan.

RUFUS ARTHUR MILLS, *Professor of English*, 1926.

B. A., M. A., Texas.

JAMES HAROLD MURDOUGH, *Professor and Head Department of Civil Engineering*, 1925, 1927.

B. S. in C. E., Massachusetts Institute of Technology; M. S. E., Michigan.

DONALD VAN DALE MURPHY, *Assistant Professor of English*, 1926, 1928.

B. A., Tulsa; M. A., Columbia.

MONTPELL ERNEST OGDON, *Associate Professor of Government*, 1929.

B. A., Illinois; M. A., Columbia.

GORDON WIGHT PARKHILL, *Instructor in Civil Engineering*, 1932.

B. S. in C. E., Texas A. & M.

LEROY THOMAS PATTON, *Professor and Head Department of Geology*, 1925.

B. A., Muskingum College; B. S., Chicago; M. S., Ph. D., Iowa.

HARDISON CECIL PENDER, *Associate Professor of Government*, 1926, 1927.

B. A., North Texas State Teachers College; M. A., Baylor.

ANNAH JO PENDLETON, *Professor of Speech*, 1927.

B. A. and Diploma in Oratory, Texas Christian University; Diploma, School of Speech, Northwestern University; M. A., Iowa.

CONNER COLUMBUS PERRYMAN, *Instructor in Engineering Drawing*, 1929.

B. S., North Texas State Teachers College.

RUTH PIRTLE, *Professor and Head Department of Speech*, 1925, 1928.

B. S., M. A., and Diploma as Teacher of Speech Education, Columbia; Hickman School of Speech Arts; Lyceum Arts Conservatory; Colorado; California; Curry School of Expression, Boston.

CHARLES BLAISE QUALIA, *Professor and Head Department of Foreign Languages*, 1925, 1932.

B. A., M. A., Ph. D., Texas.

EDWARD LOOMAN REED, *Professor of Botany*, 1926, 1929.

B. A., Oklahoma Baptist College; M. S., Ph. D., Chicago.

KENNETH MILLER RENNER, *Professor and Head Department of Dairy Manufactures*, 1927, 1931.

B. S., Iowa State College; M. S., Kansas State Agricultural College.

ZELLA E. RIEGEL, *Assistant Professor of Physical Education*, 1928.

B. A., Central College.

TRENT CAMPBELL ROOT, *Assistant Professor of Economics and Business Administration*, 1932.

B. A., Baylor; M. B. A., Harvard.

CLARENCE CARL SCHMIDT, *Associate Professor of Physics*, 1927.

B. A., Cornell; M. A., Ph. D., Illinois.

VALERIE SCHNEIDER, *Associate Professor of Chemical Engineering*, 1934.

B. S., M. S. in C. E., Texas; D. Sc. Mass. Institute of Technology.

JAMES THOMAS SHAVER, *Associate Professor of Education*, 1927.

B. S., Sam Houston State Teachers College; M. A., Columbia.

EDGAR GREER SHELTON, *Associate Professor of Architecture, and Allied Arts*, 1925.
B. S. in Arch., Texas.

RAYMOND GILBERT SIDWELL, *Assistant Professor of Geology*, 1928.
B. A., M. A., Ph. D., Iowa.

WILLIAM MACKEY SLAGLE, *Assistant Professor of Chemistry*, 1926, 1928.
B. A., Southwestern; M. A., Texas.

GEORGE SMALLWOOD, *Professor of English*, 1925.
B. A., Southwestern; M. A., Southern Methodist University.

RUSSELL T. SMITH, *Professor of Physical Education*, 1930.
B. A., Austin College.

WENZEL LOUIS STANGEL, *Professor and Head Department of Animal Husbandry*, 1925.
B. S., Texas A. & M.; M. S., Missouri.

OSCAR A. ST. CLAIR, *Professor and Head Department of Industrial Engineering Education and Engineering Drawing*, 1934.
B. S. in E. E., Armour Institute of Technology.

WILLIAM EZRA STREET, *Assistant Professor of Engineering Drawing*, 1928, 1930.
B. S. in E. E.; M. A., Texas Technological College.

ALFRED BELL STREHLI, *Assistant Professor of Spanish*, 1928.
B. A., B. S. M. A., Ohio

ALAN LANG STROUT, *Associate Professor of English*, 1928, 1930.
B. A., Dartmouth; M. A., Chicago; M. A., Wisconsin; Ph. D., Yale.

RICHARD ARTHUR STUDHALTER, *Professor and Head Department of Biology*, 1925.
B. A., Texas; M. A., Washington University; Ph. D., Chicago.

GUSSIE LEE TEAGUE, *Instructor in English*, 1926.
B. A., Oklahoma; M. A., Colorado.

HARRIET TILDEN, *Associate Professor and Head of Department of Applied Arts*, 1931.
B. S., Iowa State College; M. A., Columbia.

MAYME LUCINDA TWYFORD, *Associate Professor of Foods and Nutrition*, 1928.

B. S., West Virginia; M. A., Columbia.

WILLIAM RICHARD WAGHORNE, *Professor and Head Department of Music*, 1925.

A. A. G. O., F. A. G. O., New York.

MARGARET WATSON WEEKS, *Dean of Division of Home Economics and Professor of Nutrition*, 1925.

B. S., M. S., Columbia.

FRANCES WHATLEY, *Associate Professor of Spanish*, 1925.

B. A., M. A., Texas.

DEWEY O. WILEY, *Instructor in Music, Director of Band*, 1934.

B. Mus., Simmons; Pupil of Carl Venth, E. Clyde Whitlock, Jacques Gordon.

MAMIE WOLFFARTH, *Instructor in Typewriting and Stenography*, 1928, 1930.

B. A., M. A., Texas Technological College.

GEORGE W. WOODBURY, *Associate Professor of Horticulture*, 1931.

B. S., M. S., Michigan State College.

SANNIE CALLAN, *Parent Education Specialist*, Texarkana, Texas.

MYRTLE DUNN, *Instructor in Public School Music*.

B. Mus., Chicago Musical College.

WILLIAM FRANCIS FRY, *Biblical Literature*. Under the auspices of the Baptist General Convention of Texas.

B. A., Wake Forest; M. A., D. D., Simmons.

KENNETH E. OBERHOLTZER, *Lecturer in Education, Superintendent-elect of Lubbock City Schools*.

B. A., Illinois; M. A., Texas A. & M.

CHARLES M. ROGERS, *Lecturer in Education. Assistant Superintendent of Amarillo City Schools*.

B. A., Mississippi College; M. A., Texas Technological College.

CLARA SECREST, *Special Instructor in Penmanship and Art, Teacher of Penmanship and Drawing in Big Spring Public Schools*.

SIBYL THOMAS, *District Supervisor of Home Economics Education.*

INSTRUCTORS IN SPECIAL DEPARTMENTS

BEULAH DUNN, *Violin.*

B. Mus., Chicago Musical College.

MARGARET HUFF, *Piano.*

B. Mus., American Conservatory of Music.

FRANCIS MOORE, *Special Piano Class.*

MRS. CARL SCOGGIN, *Voice.*

Graduate of College of Music, Ottawa University.

DEPARTMENT OF EXTENSION

JULIUS F. McDONALD, *Director.*

B. A., Baylor; B. A., Yale; M. A., Chicago.

LIBRARY STAFF

ELIZABETH WEST, *Librarian, 1925.*

B. A., Mississippi State College for Women; B. A., M. A., Texas.

EMMA LILLIAN MAIN, *Assistant Librarian, 1926.*

B. A., North Texas State Teachers College.

MRS. OLIVE PRICE HOLDEN, *Instructor in Freshman Orientation;
Instructor in the Use of the Library in Research; and
Research Assistant in the Library.*

B. A., Texas.

LULU STINE, *Assistant Cataloger, 1930.*

B. A., Texas.

SUMMER SCHOOL COMMITTEE

O. V. ADAMS

A. H. LEIDIGH

A. W. EVANS

MARGARET W. WEEKS

J. M. GORDON, *Chairman*

LOOKING FORWARD

Education is more of a necessity today than ever before. America is just beginning to wake up to the fact that the schools, our system of education of all the people, have been an important influence in steadying our people in a time when others have passed through revolutions which make their future none too certain to say the least. George Peabody once created this slogan: "*Education, the debt due from present to future generations.*" Our flood of present day problems, economic, governmental, social, moral and spiritual, can be solved in a democracy only when and if the people are educated and can understand what is taking place and be able to judge intelligently such a course as will promote the greatest good to the greatest number.

To make education increasingly effective we must have the very best teachers for the training of the youth of the state and the nation. Teachers must be trained; their field of knowledge must be extended to keep pace with the times; and their skill and ability to impart their knowledge and to draw out and develop the best in their students must be increased and perfected. This field of service is one of the very important functions of the Texas Technological College. Here we shall place the emphasis especially during summer school.

Men and women must also be trained for hundreds of different lines of service in this very complex civilization of the twentieth century. The Texas Technological College trains men and women in the broad fields of Agriculture, Engineering, Home Economics, Chemistry, Physics, Economics and the other basic sciences, in Business Administration, Journalism, the languages and the great field of the Social Sciences.

As long as there is a world to serve, as long as there are children to educate, young men and young women to train for useful service, the Texas Technological College will look forward to its manifest obligation to the people of Texas, the preparation of its students for their places of service through that intellectual, moral and spiritual development which must lead the world in every walk of life be it exalted or humble.

The Summer School of the Texas Technological College is a part of our regularly organized plan of education. It utilizes our buildings and equipment during the summer and, therefore, we use the investment of the State here for practically eleven months of the year. The Summer School is intended for the benefit of teachers in the public school system of the State who desire to pursue college work, for the regular students who are anxious to complete their college course in a shorter period of time than four years, and also for those who may be irregular in their college course, thus enabling them to straighten out their course of study.

BRADFORD KNAPP, *President.*

SUMMER SESSION 1934

Texas Technological College is making its plans for the ninth annual summer session. Because of the increased enrollment, we are finding it practicable and necessary to offer a wider range of subjects in the four divisions of the College than we have ever been able to offer before. An appreciable number of high school graduates are entering summer school, planning to be graduated within three years' time. Good students can do this by attending the three summer sessions. Many of our former students who are teaching or working in temporary positions find it practicable to enroll in the summer session in order to complete the requirements for a degree. Some regularly enrolled students have allowed their courses to become irregular and need to do summer work for this reason. Teachers over the State, in increasing numbers, are finding it practicable and helpful, and in many cases necessary, to attend college in the summer. Many of them have found the climate at Lubbock and on the South Plains very satisfactory.

It has been the ambition of the College administration that courses will be offered in the summer to meet the definite demands of teachers over the country. We shall surely continue this practice during the coming summer session.

Two Terms in the Summer Session

The summer session is divided into two terms of six weeks each. The first term begins June 7 and closes July 18; the second term begins July 19 and closes August 25. Students may enroll for either term or for both terms.

Courses Largely on Semester Basis

Except for some advanced courses in education, and possibly a few other subjects, the work of the summer session will be outlined on the semester basis. That is to say, classes will meet for approximately one hour and 30 minutes each day so that a regular three-semester-hour course can be completed in a six weeks' term. The normal amount of work, therefore, will be two three-semester-hour courses per term.

In certain of the laboratory sciences, field courses, and possibly a few other subjects, the work will be so arranged that a student may complete the full year's work in six weeks. The recitation schedule will show where this is possible.

A Special Curriculum Course

The College has given work in curriculum building since the establishment of the summer school. However, because of the changing conception of education and educational values at the present time, definite emphasis will be placed on curriculum work during the summer session this year.

Special Curriculum Conference

On July 23, 24, and 25, there will be held at the College a special curriculum conference. Eminent men in Texas will be present and take part in the conference. These include Dr. Fred C. Ayer, Professor of School Administration, University of Texas; Dr. L. A. Woods, State Superintendent of Public Instruction; Superintendent H. D. Fillers, Chairman of the Curriculum Committee of the Texas State Teachers Association, and others.

Field Trips

In a limited way, the College has offered certain field courses that have proven to be very helpful. At the present time, a group of Tech people is being permitted to make certain explorations and investigations of the Yaqui Indians. The investigation will cover approximately six weeks. For this summer, an expedition is planned into Mexico by the Archaeological Department. The field trip will be given again by the Department of Geology, and a six weeks' field course in elementary botany is being planned.

Nursery School

The Nursery School will be conducted as usual on the College campus this summer. The Home Management House will be used for this purpose.

The Nursery School will serve as a laboratory for both the Child Development and Parent Education classes, and will furnish valuable experience for students enrolled in these classes.

Children between the ages of two and five will be admitted. As the enrollment is limited, application should be made as early as possible. Application blank will be sent each parent who applies.

It is necessary that the parent be willing to cooperate with the director of the Nursery School in order that the child may get the greatest amount of good from the Nursery School course. For this reason a conference will be held with each parent before the child is admitted, and several times during the session. Parents are also asked to do a limited amount of observation in the Nursery School during the session.

Each child will receive a thorough physical examination and mental tests may be given if the parents wish.

The hours of the school are from 9 to 12:30 and include the noon day meal. A special fee of \$10.00 for each child is charged. For further information write to the Dean of Home Economics, Texas Technological College.

Special Courses for Home Economics Teachers

Through the cooperation of the State Department of Vocational Education, two special courses for teachers will be offered by the Division of Home Economics as follows:

Improvement of Techniques in Home Economics Teaching will be offered from June 7 to June 28. The course will carry three semester hours credit, and will be taught by Miss Sibyl Thomas, District Supervisor of Home Economics Education. During the last three weeks of the first term *Methods in Parent Education and Child Development* will be offered by Miss Sannie Callan, Parent Education Specialist, Texarkana, Texas. This course also will carry three semester hours credit.

The Division of Home Economics is approved by the State Board of Vocational Education for the Home Economics Certificate of Approval.

Teaching of Vocational Agriculture

New work in special methods and practice teaching of vocational agriculture is being offered in Texas Technological College for men who are preparing to teach vocational agriculture in the high schools of Texas. These courses were open to students for the first time in the fall of 1933. Additional courses will be offered in the summer session of 1934. These courses are being offered with the approval of the State Board for Vocational Agricultural Education of Texas. The program of work is designed to meet the State requirements for the "Vocational Certificate of Approval" offered under the requirements of the State of Texas, and, in addition, qualify the men to teach other high school subjects.

Physical Education Courses for Teachers

An excerpt from a letter concerning physical education, and sent out by the State Department of Education February 7, 1934, follows:

"Effective in September, 1935, all classroom teachers in every public school in Texas, whether that school is seeking affiliation in the subject of physical education or not, must have at least six semester hours in the field of physical education, along with their other preparation for their classroom duties."

We will offer courses in physical education in both terms of the summer session to meet the above requirement.

Coaching School

Possibly it is not overstating the fact to say that the coaching schools held at the Texas Technological College have been outstanding in America. The fourth annual coaching school will be

held at the College during the 1934 summer session, embracing the dates July 30 to August 11, inclusive. The following are some of the men who will be on the list of instructors this summer: Harry Newman, New York Professionals; Fritz Crisler, Princeton; Noble Kizer, Purdue; Georger Keogan, Notre Dame; "Indian" Schulte, Nebraska; Harry Kipke, Michigan; Roy B. Henderson, Texas Interscholastic. These coaching courses carry a maximum of four semester hours of undergraduate College credit.

Further information regarding the coaching school will be gladly furnished by Coach P. W. Cawthon, Head of the Department of Physical Education for men.

Band School

Texas Technological College is launching this summer a band school under the direction of Professor D. O. Wiley who comes to us to be band director for the College. The work of Professor Wiley with the Simmons Cowboy Band is well-known, not only in Texas but in the North and East, and, indeed in Europe.

The band school will begin June 7 and continue eight weeks. A tuition fee of \$15.00 will be charged for the entire band course. Students who do not fill up their program with band work may take an academic course without additional charge. Credit for six semester hours of applied music and two semester hours in methods and conducting will be given for those who complete the entire course.

Additional information may be had with reference to the band school by writing Professor D. O. Wiley, or Dean J. M. Gordon, Chairman of the Summer School Committee, Texas Technological College.

Recreation

For the small sum of one dollar (\$1.00) per student, the College has been able to offer phases of recreation that have been helpful and greatly appreciated by summer school students. The major offerings this summer will be as follows:

1. A comedy-drama, "Mr. Pim Passes By," played by the Goodman Theatre Players. The cast of this play is made up of twelve people headed by Dr. Maurice Gnesin, Director. The play is sent out by the Art Institute of Chicago. Date, Monday, June 18.
2. A musical program by Kurt Brownell and Marian Kalayjian. These people were on our summer school program last summer, and we think enough of them to bring them back. Date, Friday, July 27.

3. A musical concert by Professor Ivan Dneproff of Southern Methodist University. We invited Professor Dneproff and his group to come to us last summer and they were exceedingly well received. We are asking them to return this summer. Date, Monday, August 6. (Tentative).
4. The Petrie Quintette. A Musical program featuring special arrangements of standard works, including marches, excerpts from operas, old-time songs, and favorites of the day. Date, Thursday, July 5.

Other attractions will be announced during the summer session. The above numbers will be presented in the auditorium of Lubbock's new high school building.

5. The Carlsbad Cavern-Tech Day. For several summers Texas Tech has visited the famous Carlsbad Caverns as guests of the U. S. National Park Service. This privilege has been granted by the Government again this year. The school will observe Saturday, July 7, as a holiday instead of Wednesday, July 4. A personally conducted trip for those who are interested will be made to the Caverns on July 7.

Teacher-Placement Bureau

A teacher-placement bureau is operated for the benefit of teachers and prospective teachers who desire to secure positions to teach during the coming year.

The Library

The Library will be open during the summer school from 8:00 a. m. to 10:00 p. m., except on Saturdays, when the closing hour is 1:00 o'clock in the afternoon.

At the present time, the Library contains approximately 41,424 catalogued volumes.

The College Bookstore

The College Bookstore, located in the substantial building formerly used for the College cafeteria, is owned and operated by the College. The Bookstore carries in stock all required text books, books for extension courses, all supplies and equipment needed in any of the specialized courses, and an assortment of stationery and athletic supplies. At the end of the summer term the Bookstore will purchase from students any books which are to be used in the College the following year.

New Dormitories

By the opening of the fall semester, 1934-35, Texas Technological College will have ready for occupancy two new dormitories, one for men and one for women.

These dormitories are located on the campus. The cost of each dormitory is approximately \$325,000.00. They are of fire-proof construction, beautiful in appointments, commodious, comfortable, and will be in every way attractive. There will be a dining room and kitchen connected with each dormitory. There will be fully adequate bath and toilet accommodations, hot and cold running water in every room, large dining room, and lounge or parlor to promote the social life of the students.

The dormitories will be operated by the institution itself and charge for board and room, which has not been fixed by the Board of Directors of the College yet, will be modest and in keeping with the average cost of rooms in the City of Lubbock.

The two buildings will house 320 students each and in every appointment be as attractive as a modern hotel, with the added interest of student spirit and social life, which will be promoted earnestly along with a fine opportunity for good work in College. Special announcements will be made later regarding these dormitories.

DEGREES OFFERED

In addition to the regular under-graduate degrees heretofore given by the Texas Technological College, namely, the bachelor of arts and the bachelor of business administration degrees in the Division of Arts and Sciences, and the bachelor of science degree in the technical divisions, there has been established in the Division of Arts and Sciences the degree bachelor of science in the various sciences, and the bachelor of science in education. A full discussion of the requirements for these degrees will be found in the general catalog bulletin. Special attention, however, should be called at this place to the bachelor of science degree in education.

BACHELOR OF SCIENCE IN EDUCATION

This degree has been established specifically for teachers who wish to meet the requirements to teach in the various divisions of the public schools of Texas. In meeting the requirements for the degree bachelor of science in education, a student may offer a major or minor in social science, general science, physical education, and primary education. Other majors and minors will be set up to meet the needs of teachers. The College proposes, just

as far as possible, to meet the latest requirements laid down by the State Board of Education, which are as follows.

"Beginning with the session 1934-35, standard four-year high schools, in addition to meeting fully the requirements heretofore set up for a four-year high school of the first class, shall, in filling vacancies and new positions with beginning teachers, employ only teachers in their entire system of schools—including elementary schools, junior schools, and senior high schools, who are graduates of universities, colleges, or state teachers colleges, with classroom assignments in their respective fields of preparation. At the same time principals and superintendents of such schools shall hold at least the baccalaureate degree from a reputable standard college or university, and shall have successfully completed at least eighteen semester hours in the field of educational administration; provided, however, that principals and superintendents now in service, but who do not hold such-a degree or have eighteen semester hours in the field of educational administration, must make progress toward those two objectives by completing at least eighteen semester hours in a standard college or university every three years.

"Teachers now or heretofore in service in classified four-year high schools in Texas and not having a standard degree must show progress by completing in a standard college or university at least eighteen semester hours every three years through any plan or method acceptable to the college or university."

GRADUATE STUDY

A full discussion of graduate study and advanced degrees offered will be found on pages 29 to 32 of this bulletin.

EXTENSION WORK

A discussion of work offered in the Extension Department will be found on pages 32 and 33.

ENTRANCE

The Registrar of Texas Technological College has charge of all matters relating to admission to any division of the college. All communications regarding entrance requirements should be addressed to him.

ENTRANCE REQUIREMENTS FOR THE FOUR DIVISIONS
OF THE COLLEGE

Unit Requirements. Fifteen units of credit in an accredited high school or other accredited secondary school are required for admission to Texas Technological College. In no case will more than four units of Vocational Work (Group B) be accepted. The following units are required by groups:

	Units
1. English (required of every student).....	3
2. Mathematics (See Group A).....	2
This requirement applies to all divisions except Engineering where 3 units in Mathematics are required as follows: Algebra 2, or *Algebra 1½, Plane Geometry 1, Solid Geometry or Trigonometry ½.	
3. Two units from each of any two of the three other divisions in Group A below (Social Science, Natural Science, Foreign Language)	4
4. Additional from any division or divisions of Group A.....	2
5. Additional from Group A or from B, or Groups A and B together	4
Total.....	15

*Provided ½ unit of Algebra is taken during the senior year in high school.

GROUP A

Listed below are the subjects which are included under the various divisions of this group:

Division of English:

English Language

English Literature

Division of Foreign Language:

French

German

Greek

Latin

Spanish

Czech

Division of Mathematics:

Algebra

Plane Geometry

Com. Arithmetic

Trigonometry

Adv. Arithmetic

Solid Geometry

Division of Natural Science:

Biology	Physiography	Botany
Chemistry	Zoology	General Science
Physics		Physiology and Hygiene

Division of Social Science:

Civics	Early European History	Ancient History
Economics	Mod. European History	English History
Music	World History	American History
Texas History	Commercial Law	Journalism
	Commercial Geography	Public Speaking

GROUP B

This group includes the vocational subjects which are:

Agriculture	Typewriting
Drawing	Bookkeeping
Manual Training	Home Economics
	Shorthand

HIGH SCHOOL CREDENTIALS

Transcript. A student proposing to enter Texas Technological College should see that the high school principal forwards to the Registrar a transcript of his high school record. This transcript must be on file before the date of registration and must show that the student is a graduate of the high school and give the date of graduation.

ADMISSION BY EXAMINATION

In case a student is a graduate of an accredited high school which does not offer the full fifteen accredited units, he may enter the freshman class after passing entrance examinations sufficient to bring the total to fifteen units.

Entrance examinations are given at the beginning of the summer session on June 6 and 7. By special arrangement and upon the payment of a fee of \$2.50, the examinations may be taken at the College on dates other than those given in the regular schedule. No fee is charged for taking entrance examinations at the regularly scheduled time.

SCHEDULE OF ENTRANCE EXAMINATIONS

SUMMER TERM, 1934

Wednesday, June 6

Forenoon		Afternoon	
8:00-10:00	10:00-12:00	1:00-3:00	3:00-5:00
English	Mathematics	History	Science

Thursday, June 7

Forenoon		Afternoon	
8:00-10:00	10:00-12:00	1:00-3:00	3:00-5:00
For'n Language	Bookkeeping	Agriculture	Economics
Typewriting	Public Speaking	Com. Law	Dom. Science
Manual training	Drawing	Com. Geo.	Bible
Civics	Stenography	Domestic Art	

Complying with the requirements of the State Department of Education, notebooks are required in the examinations in Natural Science.

ADMISSION OF MATURE STUDENTS ON CONDITION

At the discretion of the Dean of the particular division, mature students (twenty-one years or over) may be admitted on condition to college classes without having met the formal entrance requirements. Admission of mature students on condition is designed only for those applicants who have not recently attended high school and are therefore unable to pass the examinations. This form of admission does not confer special privileges, but on the contrary, puts the applicant under special obligations. Neglect of work or other evidence of lack of seriousness of purpose on the part of the student thus admitted will cause the Dean to withdraw approval. The student admitted on condition by individual approval must absolve the entrance requirements according to a plan set forth in the ninth annual catalogue.

ADMISSION WITH CONDITIONS

To enroll in the college a student must present a certificate of graduation from an accredited high school with fifteen affiliated high school units. Included in the fifteen units must be three units in English. If, however, he is able to present fifteen accredited units which do not include the two units each in mathematics, history, and science, he may enter on condition. (This does not apply to mathematics requirements in the Division of Engineering). If foreign language is offered for entrance, two units must be submitted. Students admitted with conditions must satisfy the requirements for such students as set forth in the ninth annual catalogue.

TRANSCRIPT OF COLLEGE CREDITS

Students who have attended other colleges and have satisfactory records and honorable dismissal by the former institution, will be welcomed at the Texas Technological College. In such cases, the student should have the Registrar of the former institution forward to the Registrar of this institution a complete transcript of the record which shall include the high school work which was submitted to the former institution.

EXPENSES

The following are the charges per student for the twelve weeks' session:

Tuition fees	\$20.00
The uniform breakage deposit.....	3.00
Recreational fee	1.00
Medical service fee.....	1.50
Total	\$25.50

The tuition fee for each six weeks' term is \$10.00. The other fees remain the same for either or both terms. There are no laboratory charges, except for breakage. The deposit of \$3.00 is refundable upon the withdrawal of the student, less any charges for loss of library books, or fines, breakage in laboratories, or other legitimate charges against such a deposit.

Exemption from Fees by Reason of Enlistment

Men and women who enlisted in the service during the World War and who are citizens of Texas, are exempted from all tuition fees. The discharge papers or service record of the student must be presented to the auditor or the fee checker at the beginning of each term. All deposits are required of ex-service students.

Cost for Board and Room

The cost of board and room for women students ranges from \$22.50 to \$30.00 a month. The cost for room with light housekeeping privileges ranges from \$5.00 to \$7.50 a month. The additional cost for supplies varies with the taste of the individual; many students have found that the total cost does not exceed \$15.00 a month.

Board and room for men students may be secured generally for \$20.00 to \$25.00 a calendar month. Accommodations are available for light housekeeping, making it possible for one to live for approximately \$15.00 a month.

SPECIAL FEES

FEES FOR SPECIAL COURSES

There is no extra charge for the numbered courses in music which are given as regular college courses. For private work the charges are as follows:

Voice, Miss Myrtle Dunn, 2 lessons per week, per term (6 weeks) First term only	\$18.00
Voice, Mrs. Carl Scoggin, 2 lessons per week, per term (6 weeks)	12.50

Piano, Miss Margaret Huff, 2 lessons per week, per term (6 weeks)	15.00
Piano, Miss Myrtle Dunn, 2 lessons per week, per term (6 weeks) First term only	18.00
Violin, Miss Beulah Dunn, 2 lessons per week, per term (6 weeks)	15.00

SPECIAL PIANO COURSES

Second Term Only

Francis Moore, American Pianist and one of the most outstanding teachers of piano playing in New York City will offer private and class lessons:

6 Private lessons per term, 30 minutes each, fee.....	\$ 30.00
12 Private lessons per term, 30 minutes each, fee.....	60.00
6 Private lessons per term, 1 hour each, fee.....	60.00
12 Private lessons per term, 1 hour each, fee.....	120.00
12 Class lessons per term, 1 hour each, fee.....	25.00
Special coaching course, fee.....	25.00
Also an auditor's class-meeting, one night each week at which Mr. Moore will play and explain methods, effects, etc., per term	6.00

MEDICAL SERVICE

Medical service for students of the College will be given by the Lubbock Sanitarium during the summer session, the cost for which will be \$1.50 for either or both terms. For students who have not presented a health certificate at this College since September 1, 1933, a physical examination is necessary. The cost for this examination is included in the \$1.50 fee. The examination may be had at the Lubbock Sanitarium on June 4, 5, and 6. After these dates, the examinations will be given at the College.

In return for the \$1.50 fee per student, the College has the following agreement with the Lubbock Sanitarium:

1. The student will be given a thorough physical examination on his entrance into the school. In case of abnormalities, the student will be given advice with a recommendation as to the treatment. This examination is not a complete examination in the clinic of the Sanitarium.

2. The student will be allowed free consultation with the school physician at any time such consultation is desired.

3. The physician will make, without further charge, calls at the student's home, or at the Sanitarium.

4. The student will, in case of necessity, have free use of the Sanitarium facilities of the Lubbock Sanitarium, including board, lodging and general nursing in the Sanitarium, for a maximum of seven days in the summer session. In the event of an epidemic, this limit may be reduced, and in case of necessity, the limit may be extended. Any reduction or extension will be made only upon the recommendation of the President of the College. These provisions apply only to the relief of acute conditions and do not include special nursing unless authorized by the President of the College in cases where students are financially unable to employ a special nurse.

5. If an ambulance is required to carry the student to the Sanitarium this will be furnished without additional charge.

6. The student will receive without further cost any pathological or X-ray examination which may be needed for treatment underway in the Sanitarium.

7. Any minor surgical operations which may be needed by the student such as for cuts, sprains, simple fractures, and vaccination against smallpox, will be performed for him without further cost.

8. The student will receive without further cost examinations and treatments by specialists for eye, ear, nose and throat difficulties. This, however, does not include operations for the removal of tonsils or for chronic nasal diseases or for special operations on the eye or ear.

9. On all operative work not covered by the medical fee, students will receive a discount of 25 per cent from the regular charge.

10. First aid service, consultation with the school physician, can be had at stated hours each day at an office provided by the College on the campus. This does not interfere with the provision in paragraph 3 above.

11. The Lubbock Sanitarium hereby agrees to report promptly to the Dean of Women of the College every case of illness among the women of the College and to report to the Dean of Men every case of illness among the men of the College, with an adequate statement of the nature of the illness.

12. The Lubbock Sanitarium agrees that all case records of students remaining in College after the period covered by this agreement will be available to the College authorities on request.

13. The Lubbock Sanitarium agrees to furnish the College quarterly reports of all services rendered to students under this agreement.

Some General Regulations

In the general catalog will be found regulations with reference to absence from classes, double cuts for absences preceding or following holidays, adding subjects, dropping subjects, and changing sections in courses. Likewise, a full discussion is given in the general catalog with reference to grades, course numbers, grade point requirements for graduation, withdrawal from College, suspension from College, et cetera. It is not deemed necessary to list these regulations in the summer school bulletin.

Attention is called also to certain housing regulations for both men and women. For a discussion of these regulations, the student is respectfully referred to the ninth annual catalog bulletin. In general all boarding students will be expected to live at houses or boarding places officially approved by the College authorities. Young women will live at places officially approved for women, and young men will stay at places officially approved for men. It is not expected that men or women students will move their boarding place during a summer term without the approval of College authorities. The Dean of Women has definite supervision of young men. The Housing Committee for men, of which Mr. Cecil Horne is Chairman, will cooperate with the men in matters pertaining to living quarters.

Student Load

The normal load for any student in either term of the summer session is six semester hours. A student may not register for more than six semester hours in the first term, unless he has maintained during the preceding long session an average of at least B, and has carried a normal schedule of work. In no case will a student be permitted to register or secure credit for more than eight semester hours in either term of the summer school, or for more than fourteen semester hours in the two terms, including any correspondence work. Students who have not done work previously in the Texas Technological College will not be permitted to register for more than six semester hours in either term of the summer school.

GRADUATE STUDY

Graduate work in Texas Technological College is confined to work toward the degrees of master of science and master of arts and is likewise confined to those departments whose staffs and facilities are adequate and qualified to give graduate work.

In general, graduate work requires that the candidate shall have obtained a bachelor's degree either at this institution or at some institution of equal rank and standing, and then shall complete not less than thirty-three semester hours of work beyond the bachelor's degree, including a thesis, which shall be founded on a

definite project of original research to be approved by the Graduate Committee.

Facilities. The College library and the laboratories of the various departments provide facilities for graduate work. New source material is constantly being added to the library, and the scientific equipment of the various laboratories of the institution are constantly being improved. Positions as graduate assistantships are provided in some departments. These place the graduate students in direct contact with the best trained men on the staff and give opportunity for the development of graduate work.

Admission. To be admitted to candidacy for the degree of master of arts or master of science a student must have received the bachelor's degree from Texas Technological College or a bachelor's degree from another college or university of equivalent standing. The major in the student's work for the graduate degree must be founded on full and adequate preparation during his undergraduate training. The institution from which the candidate comes must have held membership in a recognized association of senior colleges at the time the student was graduated. At the discretion of the Graduate Committee a candidate may be required to pass an examination as a prerequisite to admission as a candidate for the master's degree.

Amount of Work. The minimum amount of work beyond the bachelor's degree required for the master's degree is thirty-three semester hours and one year residence. A maximum of six semester hours of graduate work or the equivalent may be accepted from another institution of equal rank. A maximum of seventeen semester hours of graduate work may be carried in any one semester.

Grades. No course will be credited if the grade is lower than B.

Application. A formal written application on a blank furnished by the Registrar must be made by the graduate student and approved by the Graduate Committee, and the Dean of the division concerned, setting forth the entire course of study to be followed, the nature of the research to be pursued as a basis for the thesis, and the subject of the thesis. This application must be filed with the Graduate Committee some time before the close of the semester or session prior to the one in which the degree is to be conferred.

Thesis. A thesis subject must be chosen as a part of the major subject, and a full outline of the original research work to be undertaken as a basis for the thesis must be set forth and be approved by the Graduate Committee. Final copy of the thesis, unbound, with the signed approval of the thesis committee, head of the de-

partment, and Dean of the division concerned must be presented for examination and approval by the Committee not later than fifteen days prior to graduation, and the final corrected copy with the cost of binding, not later than five days prior to graduation. Credit for the thesis will regularly carry a maximum of six semester hours. By vote of the Graduate Committee, this amount may be increased to nine semester hours, depending upon the extent and quality of the work to be done.

Major and Minor Subjects. A candidate for the master's degree should complete a minimum of eighteen hours in the major subject, including the thesis. The remainder of the thirty-three semester hours of credit may be offered in one or two minor subjects, provided not less than six hours is offered in one subject. At least one of the minors must be closely related to the major subject. Minor subjects must be approved by the department in which the major is taken.

Residence. An applicant for the master's degree must be a student in residence at this institution for at least thirty weeks, and, in addition to this, he must account for at least six more weeks of work in one of the following ways:

1. As a resident student at Texas Technological College.
2. As a resident student in some other college of equal rank.
3. As a student in extension courses offered by Texas Technological College in which a maximum of six semester hours may be made.

An applicant for the master's degree must complete all requirements for the degree within three years from the date of his enrollment for graduate study, except that a student in summer school only may have the time extended to five years.

In case a student is employed by the College, or is employed otherwise, the length of residence to complete the work may be increased proportionately. No member of the faculty or staff with the rank of instructor will be eligible to receive a graduate degree in less than three years of nine months or the equivalent and then only in case special arrangements are made. No person holding a graduate assistantship or fellowship will be permitted to complete the work for a graduate degree in less than two long sessions of nine months each, or the equivalent.

Courses. The courses which may be taken for credit toward the master's degree are of three kinds:

1. *Graduate Courses.* These courses are given only for graduate credit and cannot be taken for credit toward the bachelor's degree.

2. *Combined Courses.* These courses are given for graduate and senior credit. There are regular graduate courses which

are intended primarily for graduate students, but to which by special arrangement a few well qualified seniors are admitted for undergraduate credit.

3. *Advanced Undergraduate Courses.* Only by special approval of the Graduate Committee will credit be given for any except regular senior courses, and then only such as have not been taken by the candidate during his undergraduate work. The approval of the courses to be taken must be specifically passed upon by the Graduate Committee.

Oral Examination. In addition to the regular written examinations, of which the department in which the subject is taken is in charge, all candidates for the master's degree, on completion of their class work, laboratory work, and thesis, are subject to a general oral examination by the Graduate Committee and such members of the staff as may be appointed for that purpose by the Graduate Committee. Such oral examination may cover all or any part of the work of the graduate student. The time of the oral examination is to be set by the Graduate Committee.

DEPARTMENT OF EXTENSION

J. F. McDONALD, DIRECTOR

The Texas Technological College through the Department of Extension offers approximately two hundred and fifty courses to those who cannot attend the regular daily classes. The Department of Extension has been approved for correspondence and extension class work by the Association of Texas Colleges, and is a member of the National University Extension Association.

DEPARTMENT

The extension service includes: (1) correspondence instruction, (2) class work in centers away from the campus, (3) night classes on the campus, (4) adult, non-credit courses, (5) group-study courses for clubs and societies, and lectures.

OBJECTIVES

The extension service is designed to meet the needs of the following classes of students: (1) those who desire to work toward a degree or a teacher's certificate, (2) those who desire to prepare for college entrance, (3) those who desire to remove deficiencies of college entrance, (4) those who desire to take certain subjects which are not available in the regular daily schedule of the college, and (5) those who desire to take certain subjects for cultural or practical purposes, whether they can or cannot meet the college entrance requirements.

REGULATIONS

1. One-fourth of the work required for a B. A. degree, and one-half of the work required for a teacher's certificate may be done by correspondence study. Also certain courses in Agriculture, Engineering, and Home Economics are available by correspondence. Additional work may be done through extension classes. Both graduate and undergraduate courses may be taken through extension classes.

2. The registration fee for each correspondence or extension course of two semester hours is \$10.00; of three semester hours, \$15.00, payable in advance, and is not refunded. Extra fees are charged in case of laboratory courses.

3. Students who desire college credits must meet college entrance requirements. But students over twenty-one may enroll on the basis of individual approval.

4. A resident student may register for work in the Department of Extension, only with the approval of his dean.

5. Persons who are regularly employed, e. g., teachers, are limited to the average of two correspondence or extension class courses each semester.

6. In correspondence courses, a self-addressed stamped envelope with sufficient stamps must be enclosed each time for the return of the lesson sheets to the student.

7. At least one lesson each week should be sent to the instructor, in a correspondence course. The course should be completed within three to four and one-half months. A course of two semester hours may not be completed in less than thirty days. It must be begun within three months or become inactive. A fee of one dollar may be charged to restore it to the active list. The course expires at the end of twelve months.

8. Extension class courses for credit are the equivalent in time and content with the corresponding residence courses.

9. If college credit is to be given, the courses must be concluded by final examinations.

10. The examinations must be taken under the supervision of the instructor, or of an official examiner, who is usually a county superintendent or a city superintendent.

11. In correspondence work, when a student is ready for the final examination he will send an examination fee of one dollar to the Department of Extension. There is no fee, however, when the examination is taken on the college campus.

12. Textbooks may be purchased from the Bookstore, Texas Technological College, Lubbock, Texas, or from the publishers.

13. Library books when available may be obtained from the College Library upon depositing \$5.00 to cover loss or damages of books. The deposit (less legitimate charges) will be returned.

OUTLINE OF COURSES

For a full discussion of the content of courses, special requirements for majoring in the various departments, and other detailed information, the student should consult the Ninth Annual Catalog which is the latest general bulletin of the College. The College reserves the right to withdraw any course scheduled for which there is not sufficient demand.

There are given with the description of each course, the hours for recitation and for laboratory work if the course is a laboratory course. There are given also the days on which recitations are held, the building, the room number, and usually the name of the instructor.

DIVISION OF AGRICULTURE

AGRICULTURAL ECONOMICS AND FARM MANAGEMENT

- 322x. *Marketing Agricultural Products.* 2 sem. hours.
 Prerequisite: Ag. Eco. 234x.
 First term. (Optional with 422x; only one of them taught.)
 10-11:30 MWF A109
 2-5 W A109 Mr. Ellsworth.
- 325x. *Farm Records and Accounts.* 2 sem. hours.
 Prerequisite: Junior standing.
 First term. 10-11:30 TTS A109
 2-5 M A109 Mr. Ellsworth.
- 422x. *Agricultural Prices and Forecasting.* 2 sem. hours.
 Prerequisite: Ag. Eco. 331x.
 First term. (Optional with 322x; only one of them taught.)
 10-11:30 MWF A109
 2-5 W A109 Mr. Ellsworth.
- 423x. *Farm Management.* 2 sem. hours.
 Prerequisite: Senior standing.
 First term. 7-8:30 MWF A107
 2-5 TT A107 Mr. Ellsworth.

RURAL SOCIOLOGY

- 422x. *Rural Sociology.* 2 sem. hours.
 Prerequisite: Junior or senior standing. Offered especially for seniors who desire to meet Smith-Hughes certificate requirements.
 First half of first term.
 11:30-1 M-S A109
 8:30-10 FS A109 Mr. Leidigh.

ANIMAL HUSBANDRY

- 121x. *Types and Market Classes of Cattle and Sheep.* 2 sem. hours.

First term. (Optional with 122x; only one of them taught.)

2-5 TTS P102 Mr. Stangel.

7-8:30 MW A109

- 122x. *Types and Market Classes of Hogs and Horses.* 2 sem. hours.

First term. (Optional with 121x; only one of them taught.)

7-8:30 MW A109

2-5 TTS P102 Mr. Stangel.

- 221x. *Breeds of Livestock.* 2 sem. hours

Prerequisite: A. H. 121x, 122x.

First term 8:30-10 M-Th P102 Mr. Stangel.

- 331x. *Animal Nutrition and Principles of Feeding.* 3 sem. hours. Prerequisite: A. H. 121x, 122x, and organic chemistry.

Second term 8:30-10 M-Th P102

2-6 Tu P102

7-10 F P102 Mr. Stangel.

- 431x. *Beef Production.* 3 sem. hours.

Prerequisite: A. H. 331x.

First term. (Optional with 433x; only one of them taught.)

11:30-1 M-S P102 Mr. Stangel.

- 432x. *Horse Production.* 3 sem. hours.

Prerequisite: A. H. 331x.

Second term. (Optional with 435x; only one of them taught.)

10-11:30 M-S P102 Mr. Harbaugh.

- 433x. *Sheep Production.* 3 sem. hours.

Prerequisite: A. H. 331x.

First term. (Optional with 431x; only one of them taught.)

11:30-1 M-S P102 Mr. Stangel.

- 435x. *Dairy Cattle Production.* 3 sem. hours.

Prerequisite: A. H. 323x, 331x.

Second term. (Optional with 432x; only one of them taught.)

10-11:30 M-S P102 Mr. Harbaugh.

VETERINARY SCIENCE

- 331x. *Anatomy and Physiology.*

Prerequisite: A. H. 121x, 122x.

Second term. 7-8:30 M-Th P102

2-6 Th P102

7-10 S P102 Mr. Harbaugh.

DAIRY MANUFACTURES

- 131x. *Principles of Dairy Manufacturing.* 3 sem. hours.
 First term. 8:30-10 M-Th A109
 Lab a. 2-5 MWF A110
 Lab. b. 2-5 TTS A110 Mr. Renner.
- 222x. *The Dairy Manufacturing Industry.* 2 sem. hours.
 Prerequisite: D. M. 131x. Application of the elements of dairying to the manufacture of dairy products. Required of all Agriculture students.
 Second term. 11:30-1 M-Th A109 Mr. Renner.
- 323x. *Market Grades and Classification of Dairy Products.* 2 sem. hours.
 First term. (Optional with 333x; only one of them taught.)
 11:30-1 M-Th A112
 Lab. to be arranged. Mr. Renner.
- 321x. *Technical Control of Dairy Products.* 2 sem hours.
 Prerequisite: D. M. 131x.
 Second term. (Optional with 331x; only one of them taught.)
 8:30-10 M-W A107
 2-5 TT A110 Mr. Renner.
- 331x. *Market Milk and Inspection.* 3 sem. hours.
 Prerequisite: D. M. 131x; one semester general bacteriology.
 Second term. (Optional with 321x; only one of them taught.)
 8:30-10 M-W A107
 2-5 TT A110 Mr. Renner.
- 333x. *Domestic Dairying.* 3 sem. hours.
 Production and uses of milk for the home. For Home Economics students.
 First term. (Optional with 323x; only one of them taught.)
 11:30-1 M-Th A112
 Lab. to be arranged. Mr. Renner.

PLANT INDUSTRY

- *322x. *Control of Insects and Diseases.* 2 sem. hours.
 Prerequisite: Chem. 132x; junior standing in Agriculture.
 For Smith-Hughes Vocational Agriculture teachers in service. Second half of first term. (See footnote.)
 11:30-1 M-S A109
 7-8:30 FS A109 Mr. Woodbury.

HORTICULTURE

341x. *Principles of Genetics.* 4 sem. hours.

Prerequisite: Bot. 131x-2x, Ag. Eco. 334x for Agriculture students; Math. 131x for non-Agriculture students.

First term. 8:30-10 M-S A107

2-6 TT A112 Mr. Woodbury.

*434x. *Advanced Olericulture.* 3 sem. hours.

Prerequisite: Senior or graduate standing in Agriculture. Planning the farm garden. Characteristics, requirements, and classification of vegetables. Theory to be taught in class; practice to consist of research project to be carried on during a period of six months and of sufficient grade to be given graduate credit. For Smith-Hughes Vocational Agriculture teachers in service.

First half of first term. (See footnote).

11:30-1 M-S A109

7-8:30 FS A109 Mr. Woodbury.

AGRONOMY

221x. *Soils.* 2 sem. hours.

Prerequisite: Agron. 131x, Chem. 131x.

Second term. 7-8:30 M-Th A107 Mr. Bell.

331x. *Forage and Pasture Crops.* 3 sem. hours.

Prerequisite: Agron. 131x, and one year of botany.

Second term. 10-11:30 MTh A109

2-5 MWF A112 Mr. Bell.

432x. *Soil Management.* 3 sem. hours.

Prerequisite: Agron. 221x, 331x.

First term. 8:30-10 M-Th A112

2-5 MWF A112 Mr. Leidigh.

TEACHER TRAINING IN VOCATIONAL AGRICULTURE

AGRICULTURAL EDUCATION

521x. *Future Farmer Activities.* 2 sem. hours.

Prerequisite: Ag. Ed. 441x-2x or the equivalent; graduate standing in Agriculture. Methods of conducting and promoting group activities of immediate importance to future farmers. First term. 11:30-1 M-Th A107 Mr. Luker.

* Dependent upon the demand, Hort. 434x may be taught during the first half of the first term and P. I. 322x during the second half of the first term, or vice versa; or Hort. 434x may be taught twice, during the first and second halves respectively of the first term. These courses are offered for Smith-Hughes teachers.

531x. *Evening Schools.* 3 sem. hours.

Prerequisite: Ag. Ed. 441x-2x or the equivalent; graduate standing in Agriculture. Adult education for farmers. Organization, plans, and participation work. Course content, sustained continuity, and analysis of methods. Much of the work done in the field.

First term. 7-8:30 M-Th P102

2-6 TT A109 Mr. Luker.

541x. *Advanced Supervised Practice.* 4 sem. hours.

Prerequisite: Ag. Ed. 441x-2x or the equivalent; graduate standing in Agriculture. Methods of conducting, scoring, and evaluating supervised practice in vocational agriculture, Problems. Much of the work done in the field.

Second term. 8:30-10 M-S A109

2-6 WS A109 Mr. Luker.

DIVISION OF ENGINEERING

ARCHITECTURE AND ALLIED ARTS

- 121x-2x. *Freehand Drawing*. 4 sem. hours. 18 laboratory hours per course. Both terms. First term. To be arranged. Room E209. Mr. Kleinschmidt.
Second term. To be arranged. Room E209. Mr. Shelton.
- 123x-4x. *Elements of Composition*. 4 sem hours. 18 laboratory hours per course.
First term. To be arranged. Room E212. Mr. Kleinschmidt.
- 125x. *Shades and Shadows*. 2 sem. hours. 18 laboratory hours. Second term. To be arranged. Room E212. Mr. Shelton.
- 126x. *Perspective*. 2 sem. hours. 18 laboratory hours.
Second term. To be arranged. Room E212. Mr. Shelton.
- 131x-2x. *Elements of Architecture*. 6 sem. hours. 24 laboratory hours per course.
First term. To be arranged. Room E212. Mr. Kleinschmidt.
Second term. To be arranged. Room E212. Mr. Shelton.
- 220x. *Principles of Drawing and Painting, Theory of Design*. 2 sem. hours. 18 laboratory and lecture hours.
First term. To be arranged. Rooms E209, E252. Mr. Kleinschmidt.
- 224x. *Pencil Rendering and Sketching*. 2 sem. hours. 18 laboratory hours. Both terms.
First term. To be arranged. Room E209. Mr. Kleinschmidt.
Second term. To be arranged. Room E209. Mr. Shelton.
- 225x. *Pen and Ink Rendering*. 2 sem. hours. 18 laboratory hours. Both terms.
First term. To be arranged. Room E209. Mr. Kleinschmidt.
Second term. To be arranged. Room E209. Mr. Sheton.
- 326x. *Cast Figure Drawing*. 2 sem. hours. 18 laboratory hours. Both terms.
First term. To be arranged. Room E209 Mr. Kleinschmidt.
Second term. To be arranged. Room E209. Mr. Shelton.

CIVIL ENGINEERING

- 220x. *Elementary Surveying*. 2 sem. hours. 18 laboratory hours
Second term. To be arranged. Mr. Adams.
- 231x. *Plane Surveying*. 3 sem. hours. 6 lecture and 9 laboratory hours.
Second term. To be arranged. Mr. Adams.

- 233x. *Applied Mechanics--Statics.* 3 sem. hours. 9 lecture hours.
First term. 7-8:30 M-S, Room E109. Mr. Murdough or Mr. Parkhill.
- 310x. *Testing Laboratory.* 1 sem. hour. 9 laboratory hours.
First term. To be arranged. Mr. Parkhill.
- 332x. *Applied Mechanics--Kinetics.* 3 sem. hours. 9 lecture hours
First term. 8:30-10 M-S, Room E109. Mr. Murdough.
- 333x. *Applied Mechanics--Strength of Materials.* 3 sem. hours.
9 lecture hours.
First term. 11:30-1 M-S, Room E109. Mr. Murdough.
- 420x. *Hydraulics.* 2 sem hours. 6 lecture hours.
First term. 10-11:30 MWTS, Room E109. Mr. Parkhill.
- 421x. *Specifications.* 2 sem hours. 6 lecture hours.
Second term. To be arranged. Mr. Adams.

ELECTRICAL ENGINEERING

- 230x. *Principles of Electrical Engineering.* 3 sem. hours. 9
lecture hours.
Second term. To be arranged. Mr. Helwig.
- 333x. *Elements of Electrical Engineering.* 3 sem. hours. 9
lecture hours.
First term. 7-8:30 M-S, Room E152. Mr. Bullen.
- 334x. *Elements of Electrical Engineering.* 3 sem. hours. 9
lecture hours.
Second term. 7-8:30 M-S, Room E152. Mr. Helwig.

INDUSTRIAL ENGINEERING, ENGINEERING DRAWING,
AND INDUSTRIAL EDUCATION

- Engr. Dwg. 132x. *Engineering Drawing.* 3 sem. hours 3
lecture and 18 laboratory hours. Both terms.
First term. To be arranged. Mr. Street.
Second term. To be arranged. Mr. Perryman.
- 133x. *Engineering Drawing.* 3 sem. hours. 3 lecture and
18 laboratory hours. Both terms.
First term. To be arranged. Mr. Street.
Second term. To be arranged. Mr. Perryman.
- 134x. *Graphic Arts.* (Primarily for Commercial Art Students.)
3 sem. hours. 9 lecture and 18 laboratory hours.
Second term. To be arranged. Mr. Perryman.
- 221x. *Machine Drawing.* 2 sem. hours. 18 laboratory hours.
First term. To be arranged. Mr. St. Clair.

- 222x. *Descriptive Geometry.* 2 sem hours. 3 lecture and 9 laboratory hours.
First term. To be arranged. Mr. Street.
- 321x. *Mechanical Drawing for Teachers or Advanced Students.* 2 sem. hours. 3 lecture and 9 laboratory hours. Prerequisite: Engr. Dwg. 221x and 222x. This course is designed to emphasize those points which are essential to make a neat mechanical drawing--dimensioning, lettering, sectional views, arrangements, etc. Required of all candidates for degree in Industrial Education.
First term. To be arranged. Mr. St. Clair.
- 322x. *Advanced Machine Drawing.* 2 sem. hours. 18 laboratory hours. Prerequisite: Engr. Dwg. 221x and 222x. Designed to give training in making drawings of more complicated machines than is given in the freshman and sophomore years. This course is particularly designed to give the student practice in making mechanical drawings of a quality expected of a draftsman by an industrial concern.
First term. To be arranged. Mr. St. Clair.
- Ind. Ed. 311x. *History and Principles of Vocational Education.* 1 sem. hour. 3 lecture hours. Designed to give students a background of the history of the vocational movement, not only in this country but elsewhere. A study of the principles underlying this subject, with particular reference to those which apply to the movement in this country.
First term. To be arranged. Mr. St. Clair.
- 423x. *Industrial Arts Course-Making.* 2 sem. hours. 3 lecture hours and 9 laboratory hours. Instruction and practice in outlining courses in Industrial Arts. Designed to assist those students who anticipate becoming supervisors or teachers of Industrial Arts in the public schools.
First term. To be arranged. Mr. Street.
- Ind. Engr. 324x. *Production Planning and Control.* 2 sem. hours. 3 lecture and 9 laboratory hours. Standard methods of planning, scheduling, and controlling processes in modern industrial plants. Machine capacity analysis. Typical production problems.
First term. To be arranged. Mr. St. Clair.

MECHANICAL ENGINEERING

- 121x. *General Wood Work.* 2 sem hours. 18 laboratory hours. Care and operations of wood working lathes, jointer, saws, surfacer, and shaper; use of hand tools; projects

in wood work embodying the various joints; paneling; glue; and various finishings.

First Term. To be arranged. M. E. Shops. Mr. Hardgrave.

- 122x. *Welding Practice*. 2 sem. hours. 18 laboratory hours. Brief survey of welding practice; electric arc, resistance, oxy-acetylene, and thermit welding; application of welding in construction of machines and structural steel work; repairing of machine parts; care and operation of oxy-acetylene and arc welding equipment; butt, lap and tee welds; welding methods; pipe cutting and welding; welding of various metals. First term. To be arranged, M. E. Shops. Mr. Hardgrave.

- 211x. *Sheet Metal Work*. 1 sem. hour. 9 laboratory hours. Prerequisite: Registration in Engr. Dwg. 133x. The fundamental operations of sheet metal work; developing patterns and laying out work; hand and machine operations; rolling, forming, crimping, wiring, seaming, grooving, cutting, turning, beading, riveting; soldering of brass, copper, tin, galvanized iron, and steel. First term. To be arranged, M. E. Shops. Mr. Hardgrave.

- 221x. *Engineering Problems*. 2 sem. hours. 3 lecture and 6 laboratory hours. First term. 10-11:30 MF; 2-5 MF, Room E205. Mr. Lewis.

- 311x. *Pattern Shop*. 1 sem. hour. 9 laboratory hours. First term. To be arranged. M. E. Shops. Mr. Hardgrave.

- 312x. *Foundry Practice*. 1 sem. hour. 9 laboratory hours. First term. To be arranged, M. E. Shops. Mr. Hardgrave.

- 313x. *Machine Shop*. 1 sem. hour. 9 laboratory hours. First term. To be arranged, M. E. Shops. Mr. Hardgrave.

- 314x. *Machine Shop*. 1 sem. hour. 9 laboratory hours. First term. To be arranged, M. E. Shops. Mr. Hardgrave.

- 315x. *Heat Treating of Steel*. 1 sem. hour. 9 laboratory hours. First term. To be arranged, M. E. Shops. Mr. Hardgrave.

- 316x. *Tool Engineering*. 1 sem. hour. 9 laboratory hours. First term. To be arranged, M. E. Shops. Mr. Hardgrave.

- 319x. *Advanced Foundry Practice*. 1 sem. hour. 9 laboratory hours. Prerequisite: M. E. 312x. A continuation of M. E. 312x with more advanced problems; foundry layout for quantity production; molding machines and match plates; cupola design; calculations for mixing, charging, and operating a cupola; melting and casting cast iron; microscopic examination and physical testing of cast iron, malleable iron, and cast steel; cost of operation.

First term. To be arranged, M. E. Shops. Mr. Hardgrave.

- 335x. *Thermodynamics and Heat Engines*. 3 sem. hours 9 lecture hours.

First term. 11:30-1 M-S, Room E150. Mr. Lewis.

TEXTILE ENGINEERING

- 321x. *Hand Weaving from Fiber to Fabric*. 3 sem. hours. 3 lecture and 18 laboratory hours. A study of fibers, preparation, dyeing, carding, spinning, warping, weaving, and finishing hand woven woolens.

First term. To be arranged, Room T207. Mr. Heard.

- 325x. *Cotton Grading and Stapling*. 2 sem. hours. 3 lecture and 9 laboratory hours. The commercial classification of American cotton according to grade, color and staple.

First term. To be arranged, Room T204. Mr. Heard.

DIVISION OF HOME ECONOMICS

DEPARTMENT OF APPLIED ARTS

- 131x. *Elementary Design*. 3 sem. hours.
First term. Miss Tilden.
10-1 M-S, H106.
- 231x. *Costume Design*. 3 sem. hours. Prerequisite: A. A. 131x
First term. Miss Tilden.
7-10 M-S, H106.
- or
- 331x. *Interior Decoration*. 3 sem. hours. Prerequisite: A. A. 131x.
First term. Miss Tilden.
7-10 M-S, H106.

DEPARTMENT OF CLOTHING AND TEXTILES

- 131x. *Elementary Textiles*. 3 sem. hours.
Second term. Mrs. Buster.
7-10 M-S, H208.
- 132x. *Elementary Clothing Construction*. 3 sem. hours.
First term. Miss Looney.
7-10 M-S, H205.
- 231x. *Pattern Designing*. 3 sem. hours. Prerequisite: Clothing 131x, 132x, Applied Arts 231x (or parallel).
First term. Miss Erwin, Miss Looney.
10-1 M-S, H102.
- 321x. *Children's Clothing*. 2 sem. hours. Prerequisite: Clothing 131x, 132x, 231x or 232x, Applied Arts 231x.
Second term. Mrs. Buster.
10:30-12:30, M-S, H205.
- 322x. *Weaving Crafts*. 2 sem. hours. Prerequisite or parallel: Clothing 131x and Applied Arts 131x.
Second term.
10:30-12:30 M-S, H204.
- 421x. *Demonstration Clothing*. 2 sem. hours. Prerequisite: H. E. Education 431x, Clothing 231x, 232x, 321x, 431x.
Second term. Miss Erwin.
7-9 M-S, H102.
- 431x. *Textile Economics*. 3 sem. hours. Prerequisite: Clothing 231x or 232x and Economics.
First term. Miss Erwin.
7-8:30 Tu-F, 7-10 M, 2-5 F, H102.

DEPARTMENT OF FOODS AND NUTRITION

- 131x. *Elementary Food Preparation and Serving.* 3 sem. hours.
First term. Miss Johnson.
10-1 TTFS, H210; 10-11:30 MW, H104.
- 132x. *Elementary Food Preparation and Serving.* 3 sem. hours.
Second term. Miss Johnson.
10-1 TTFS, H210; 10-11:30 MW, H104.
- 231x. *Dietetics.* 3 sem. hours. Prerequisite: Foods 131x-2x, Chemistry 131x-2x. Prerequisite or parallel: Zoology 235x.
Second term. Miss Weeks.
10-1 MW, H108; 10-11:30 TTFS, H104.
- 332x. *Food Purchasing.* 3 sem. hours. Prerequisite: Foods 231x.
First term. Miss Twyford, Miss Johnson.
8:30-10 TTFS, H108; 1-4 M-W, H108.
- 432x. *Advanced Nutrition.* 3 sem. hours. Prerequisite: Foods 231x.
Second term. Miss McCrery.
7-8:30 M-S H104.

DEPARTMENT OF HOME MANAGEMENT

- 321x. *Residence in Home Management House.* 2 sem. hours.
Prerequisite: H. M. 331x, Foods 231x. Registration limited.
Second term. Miss McCrery, Home Management House.
- 331x. *Household Management.* 3 sem. hours.
First term. Miss Twyford.
10-11:30 MWFS, H 208; 1-4 TT, H208
- 421x. *Child Development and Nursery School.* 2 sem. hours.
First term. Miss Weeks and Nursery School Director.
7-8 MWFS—3 laboratory periods to be arranged.
- 422x. *Family Relations.* 2 sem. hours. prerequisite: Senior standing.
Second term. Miss Weeks.
9-10 M-S, H104.

DEPARTMENT OF HOME ECONOMICS EDUCATION

- 431x. *Methods of Teaching Home Economics.* 3 sem. hours.
Prerequisite: Education 234x; Senior standing.
Second term. Miss Johnson.
7-8:30 M-S, H104.

- 432x. *Improvement of Techniques of Home Economics Teaching.* 3 sem. hours. Prerequisite: Experience in teaching home economics in high school.

First term. First three weeks. Miss Sibyl Thomas, District Supervisor of Home Economics.

8:30-10 M-S, H104. 2-3:30 M-S, H104.

- 433x. *Methods in Adult Education and Child Development.*

First term. Second three weeks. Miss Sannie Callan, Parent Education Specialist, Texarkana, Texas.

8:30-10 M-S, H104; 2-3:30 M-S, H104.

DIVISION OF ARTS AND SCIENCES

BIOLOGY

Botany 133x-4x. *Field Botany*. 6 sem. hours. Open to freshmen. This is a full year's work. The camp-site of the field trip will be in Gallinas Canyon, near Las Vegas, New Mexico. First term.

Zoology 131x-2x. *General Zoology*. 6 sem. hours. Open to freshmen. This is a full year's work.
Second term. 7-12 M-S, Room C217.

Zoology 235x-6x. *The Human Body*. 6 sem. hours. This is a full year's work. Prerequisite: Sophomore standing.
First term. 8-9, 12-1 M-S, Room C101
9-12 M-S, Room C217

CHEMISTRY

131x. *General Chemistry*. 3 sem. hours. Open to freshmen.
First term. 10-11:30 T-S, Room C-F
2-5 MWF, Room C-A

132x. *General Chemistry*. 3 sem. hours. (Continuation of 131x).
Second term. 10-11:30 T-S, Room C-F
2-5 MWF, Room C-A

220x. *Qualitative Analysis*. 2 sem. hours. Prerequisite: Chem. 131x-2x. Both terms.
First term. 7-8 MWF, Room C-F
7-10 TTS, Room C-E
Second term. 7-8 MWF, Room C-F
7-10 TTS, Room C-E

242x. *Inorganic Chemistry*. 4 sem. hours. Prerequisite: Chem. 220x.
Second term. 7-8:30 M-S, Room C-N
2-6 TT, Room C-E

330x. *Teaching of Chemistry*. 3 sem. hours. Prerequisite: Chem. 220x and 242x and 12 sem. hours in education.
First term. To be arranged. Mr. Goodwin.

341x. *Organic Chemistry*. 4 sem. hours. Prerequisite: Chem. 131x-2x. For students in the division of Agriculture and Home Economics.
First term. 7-8:30 M-S, Room C-O
2-5 MWF, Room C103 Mr. Goodwin.

- 343x. *Organic Chemistry*. 4 sem. hours Prerequisite: Chem. 131x-2x and 220x.
First term. 8:30-10 M-S, Room C-O.
2-5 MWF, Room C103 Mr. Goodwin.
- 344x. *Organic Chemistry*. 4 sem. hours (Continuation of 343x.)
Second term. 8:30-10 M-S, Room C-O
2-5 MWF, Room C103 Mr. Slagle.
- 430x. *Technical Analysis*. 3 sem. hours. Prerequisite: Consent of instructor.
Second term. To be arranged. Mr. Craig.
- 434x. *Organic Preparations*. 3 sem. hours. Prerequisite: Consent of instructor.
First term. To be arranged. Mr. Goodwin.

ECONOMICS AND BUSINESS ADMINISTRATION

Economics

- 231x. *Principles of Economics*. 3 sem. hours. Prerequisite: Sophomore standing.
First term. 7-8:30 M-S, Room 308.
- 232x. *Principles of Economics*. 3 sem. hours. (Continuation of 231x.)
Second term. 7-8:30 M-S, Room 308.

Business Administration

- 211x. *Elementary Typewriting*. 1 sem. hour.
First term. Sec. 1, 7-8:30 M-S, Room 314
Sec. 2, 10-11:30 M-S, Room 314
- 221x. *Advanced Typewriting*. 2 sem. hours.
Second term. 8:30-10 M-S, Room 314.
- 234x. *Introduction to Accounting*. 3 sem. hours. Prerequisite: Sophomore standing.
First term. 11:30-1 M-S, Room 308.
- 235x. *Introduction to Accounting*. 3 sem. hours. (Continuation of 234x.)
Second term. 11:30-1 M-S, Room 308.
- 337x. *Advanced Accounting*. 3 sem. hours.
First term. 8:30-10 T-S, Room 308. Mr. Condray.
- 434x. *Investments*. 3 sem. hours.
First term. 10-11:30 T-S, Room 308. Mr. Root.

EDUCATION AND PSYCHOLOGY

Education

- 123x. *Methods in Elementary English.* 2 sem. hours.
First term. 11:30-12:30 M-S, Room C-F.
- 125x. *Methods of Teaching Penmanship in the Elementary Grades.* 2 sem. hours.
First term. 8:30-9:30 M-S, Room T105.
- 127x. *Methods of Teaching Art in the Elementary Grades.* 2 sem. hours.
First term. 11:30-12:30 M-S, Room T105.
- 131x. *Introduction to Education.* 3 sem. hours.
First term. 8:30-10 M-S, Room 320.
- 132x. *Classroom Management and Methods.* 3 sem. hours.
Second term. 8:30-10 M-S, Room 320.
133. *Elementary Methods.* (Term number) 2 sem. hours.
First term. 8:30-9:30 M-S, Room C-N.
- 221x. *Social Studies in the Primary Grades.* 2 sem. hours.
First term. 10-11 M-S, Room C-N.
- 223x. *School Health and Hygiene.* 2 sem. hours.
First term. 9-10 M-S, Room C101.
- 226x. *The Primary Skills, Arithmetic, Writing, and Spelling.* 2 sem. hours.
Second term. 10-11 M-S, Room C-O.
- 227x. *Reading in the Elementary Grades.* 2 sem. hours.
First term. 11:30-12:30 M-S, Room C-N.
- 229x. *Rural Education.* 2 sem. hours.
Second term. 8:30-9:30 M-S, Room C-N.
- 234x. *Principles of Secondary Education.* 3 sem. hours. Both terms. Prerequisite: sophomore standing.
First term, 7-8:30 M-S, Room 320. Second term, 11:30-1 M-S, Room 320.
235. *High School Curriculum.* (Term number) 2 sem. hours.
Prerequisite: sophomore standing.
First term, 11:30-12:30 M-S, Room C-O.
- 235x. *High School Methods.* 3 sem. hours. Both terms. Prerequisite: sophomore standing.
First term, 10-11:30 M-S, Room 220. Second Term, 7-8:30 M-S, Room 320.
- 320x. *The Principal and His School.* 2 sem. hours. Prerequisite: junior standing.
First term. 10-11 T-S, Room C-O. Mr. Rogers.

- 322x. *High School Problems*. 2 sem. hours. Prerequisite: junior standing.
Second term. 10-11 T-S, Room 220. Mr. Evans.
- 323x. *Observation and Practice*. 2 sem. hours. Prerequisite: junior standing.
First term. 7-8, T-S, Room C101. Mr. Shaver.
- 326x. *Educational and Vocational Guidance*. 2 sem. hours. Prerequisite: junior standing.
Second term. 10-11 T-S, Room 216. Mr. Gordon.
- 3210x. *Literature in the Primary Grades*. 2 sem hours. Prerequisite: junior standing.
Second term. 7:30-8:30 T-S, Room C-O. Miss Dysart.
- 3211x. *The Primary Curriculum*. 2 sem. hours. Prerequisite: junior standing.
First term. 7:30-8:30 T-S, Room C-N. Miss Dysart.
- 3212x. *A General Science Survey Course for Teachers*. 2 sem. hours. Prerequisite: junior standing and at least 6 sem. hours in a laboratory science, or teaching experience in general science. A non-laboratory course designed to be definitely helpful to teachers of high school general science. Lecturers as follows: biology, Mr. Reed; human physiology, Miss League; chemistry, Mr. Goodwin; geology, Mr. Sidwell; physics, Mr. George; psychology, Miss Dysart.
First term. 7-8 p. m., M-S. Room C101.
- 421x. *Education in the United States*. 2 sem. hours. Prerequisite: senior standing.
Second term. 10-11 T-S, Room C-N. Mr. Barnett.
- 423x. *School Publicity*. 2 sem. hours. Prerequisite: senior standing.
Second term. 10-11 T-S, Room 320. Mr. Garlin.
- 424x. *Supervision of Instruction*. 2 sem. hours. Prerequisite: senior standing.
First term. 10-11 T-S, Room C101. Mr. Garlin.
- 425x. *Extra-Curricular Activities*. 2 sem. hours. Prerequisite: senior standing.
Second term. 7:30-8:30 T-S, Room 220. Mr. Evans.
- 426x. *The Curriculum*. 2 sem. hours. Prerequisite: senior standing.
First term. 7:30-8:30 T-S, Room 216. Mr. Evans.
- 522x. *Problems in Secondary Education*. 2 sem. hours. Prerequisite: graduate standing.
Second term. 10-11 T-S, Room 220. Mr. Evans.

- 526x. *Guidance Problems*. 2 sem. hours. Prerequisite: graduate standing.
Second term. 10-11 T-S, Room 216. Mr. Gordon.
- 530x. *Research*. 3 sem. hours. Both terms. (Two sections.)
Prerequisite: graduate standing.
First term. Sec. 1, 3-4:30 M-F, Room 220. Mr. Evans.
Sec. 2, 3-4:30 M-F, Room 216. Mr. Garlin.
Second term. Sec. 1, 3-4:30 M-F, Room 220. Mr. Evans.
Sec. 2, 3-4:30 M-F, Room 216. Mr. Garlin.

Psychology

- 230x. *Introduction to Psychology*. 3 sem. hours. Prerequisite: sophomore standing.
Second term. 8:30-10 M-S, Room 220.
- 231x. *Educational Psychology*. 3 sem. hours. Prerequisite: sophomore standing.
First term. 11:30-1 M-S, Room 220.
- 321x. *Child Psychology*. 2 sem. hours. Prerequisite: junior standing.
Second term. 11:30-12:30 T-S, Room C-O. Miss Dysart.
- 323x. *Measurements in Education*. 2 sem. hours. Prerequisite: junior standing.
Second term. 11:30-12:30 T-S, Room C-N. Mr. Barnett.

ENGLISH

- 131x. *Freshman Composition*. 3 sem. hours. Both terms.
First term, Sec. 1, 7-8:30 M-S, Room 207; Sec. 2, 11:30-1 M-S, Room 209; Sec. 3 10-11:30 M-S, Room 209. Second term, 8:30-10 M-S, Room 207.
- 132x. *Freshman Composition*. 3 sem. hours. (Continuation of 131x). Both terms.
First term, Sec. 1, 11:30-1, M-S, Room 208; Sec. 2, 8:30-10 M-S, Room 206.
Second term, 11:30-1 M-S, Room 207.
- 231x. *Introduction to Literature*. 3 sem. hours. Both terms.
Prerequisite: Eng. 131x-2x or its equivalent.
First term. 10-11:30 M-S, Room 207.
Second term. 8:30-10 M-S, Room 208.
- 232x. *Introduction to Literature*. 3 sem. hours. (Continuation of 231x). Both terms.
First term, 8:30-10 M-S, Room E201.
Second term, Sec. 1, 7-8:30 M-S, Room 209.
Sec. 2, 10-11:30 M-S, Room 209.
- NOTE:—English 131x-2x; 231x-2x or their equivalent are prerequisite to all other courses in English.

- 332x. *History of the English Language.* 3 sem. hours.
Second term. 11:30-1 T-S, Room 209. Mr. Carter.
- 335x. *American Drama; 1865 to the Present.* 3 sem. hours.
Second term. 10-11:30 T-S, Room 207. Mr. Smallwood.
- 337x. *Grammar for Speech.* 3 sem. hours.
First term. 10-11:30 T-S, Room 206. Mr. Fowler.
- 3310x. *The Teaching of English in the High School.* 3 sem. hours. Prerequisite: Eng. 231x-2x and junior standing in education.
First term. 7-8:30 T-S, Room 209. Mr. Fowler.
- 3313x. *Contemporary English Poetry.* 3 sem. hours.
First term. 10-11:30 T-S, Room 208. Miss Gill.
- 430x. *Elizabethan Drama.* 3 sem. hours.
First term. 7-8:30 T-S, Room 208. Mr. Gates.
- 438x. *Nineteenth Century English Prose.* 3 sem. hours.
Second term. 8:30-10 T-S, Room 209. Miss Teague.
- 439x. *Contemporary Drama; Ibsen to Shaw.* 3 sem. hours.
First term. 8:30-10 T-S, Room 209. Mr. Murphy.
- 4312x. *Age of Johnson; Johnson and His Circle.* 3 sem. hours.
Second term. 7-8:30 T-S, Room 207. Mr. Allen.
- 530x. *The Contemporary Short Story.* 3 sem. hours.
First term. 10-11:30 T-S, Room E201. Mr. Cunningham.
- 531x. *The Modern American Novel.* 3 sem. hours.
Second term. 11:30-1 T-S, Room 208. Mr. Mills.
- 532x. *The English Novel; Lyly to Scott.* 3 sem. hours.
First term. 11:30-1 T-S, Room E201. Mr. Strout.
- Journalism 331x. *Special Feature Articles.* 3 sem. hours.
First term. 8:30-10 T-S, Room 208. Mr. Horne.
- Journalism 432x. *High School Publications.* 3 sem. hours.
First term. 11:30-1 T-S, Room 207. Mr. Crain.

FOREIGN LANGUAGES

French

- 131x. *A Beginning Course in French.* 3 sem. hours.
First term. 10-11:30 M-S, Room 219.
- 132x. *A Beginning Course in French.* 3 sem. hours. (Continuation of French 131x.)
Second term. 10-11:30 M-S, Room 219.

231x. *A Reading Course in French.* 3 sem. hours. Prerequisite: French 131x-2x, or two units of high school French.
First term. 7-8:30 M-S, Room 219.

232x. *A Reading Course in French.* 3 sem. hours. (Continuation of French 231x.)
Second term. 7-8:30 M-S, Room 219.

German

231x. *A Reading Course in German.* 3 sem. hours. Prerequisite: German 131x-2x, or two units of high school German.
First term. 10-11:30 M-S, Room 323.

232x. *A Reading Course in German.* 3 sem. hours. (Continuation of German 231x.)
Second term. 10-11:30 M-S, Room 323.

233x. *Scientific German.* 3 sem. hours. Prerequisite: German 131x-2x, or two units of high school German.
First term. 10-11:30 M-S, Room 323.

234x. *Scientific German.* 3 sem. hours. (Continuation of German 233x.)
Second term. 10-11:30 M-S, Room 323.

Spanish

131x. *A Beginning Course in Spanish.* 3 sem. hours.
First term. 7-8:30 M-S, Room 210.

132x. *A Beginning Course in Spanish.* 3 sem. hours. (Continuation of Span. 131x.)
Second term. 7-8:30 M-S, Room 210.

231x. *Grammar, Reading, Composition and Conversation.* 3 sem. hours. Prerequisite: Span. 131x-2x, or two units of high school Spanish.
First term. 10-11:30 M-S, Room 210.

232x. *Grammar, Reading, Composition and Conversation.* 3 sem. hours. (Continuation of Spanish 231x.)
Second term. 10-11:30 M-S, Room 210.

331x. *Contemporary Literature.* 3 sem. hours. Prerequisite: Spanish 231x-2x, or three or four units of high school Spanish.
First term. 8:30-10 T-S, Room 221. Miss Whatley.

332x. *Contemporary Literature.* 3 sem. hours. (Continuation of Span. 331x.)
Second term. 7-8:30 T-S, Room 221. Mr. Strehli.

- 435x. *Teachers' Course in Methods of Teaching Spanish.* 3 sem. hours. Prerequisite: Span. 331x-2x and one year in education. Preparation for teaching Spanish in high school. Scientific and practical methods with as much practice work as possible.
Second term. 10-11:30 T-S, Room 221. Mr. Qualia.
- 537x. *Contemporary Drama.* 3 sem. hours. Prerequisite: Spanish 331x-2x, or the equivalent. Intensive study of some representative dramas of living authors, and rapid reading of others.
First term. 10-11:30 T-S, Room 221. Mr. Qualia.
- 538x. *The Epic Literature of Spain.* 3 sem. hours. Prerequisite: Span. 331x-2x, or the equivalent. A study of the epic and the ballad.
First term. 11:30-1 T-S, Room 221. Miss Whatley.

GEOLOGY

- 131x-2x. *General Geology.* 6 sem. hours. Open to freshmen. This is a full year's work.
First term. 7-8 and 11-12 M-S, Room C-D; 8-11 M-S, Room C205.
- 363x. *Field Geology.* 6 sem. hours. Prerequisite: Geol. 131x-2x. The course for the summer of 1934 will consist of detailed geologic work in the Sangre de Cristo Mountains of New Mexico. At the beginning of the course each student will make a deposit of \$45.00 to cover living expenses for the six weeks, transportation from Lubbock to the field and return, and transportation while in the field. Any unused portion of the deposit will be returned pro rata. While this course is intended primarily for students making geology their major, it can be taken with profit by the general student.
First term. Mr. Patton.
- Geography 131x-2x. *Principles of Geography.* 6 sem. hours. Open to freshmen. This is a full year's work.
Second term. 7-8 and 11-12 M-S, Room C-D; 8-11 M-S, Room C205.

GOVERNMENT

- 131x. *American Government, National.* 3 sem. hours. Open to freshmen. Both terms.
First term. 8:30-10 M-S, Room 302.
Second term. 7-8:30 M-S, Room 302.

- 132x. *American Government, State.* 3 sem. hours. (Continuation of 131x). Both terms.
First term. 7-8:30 M-S, Room 302.
Second term. 8:30-10 M-S, Room 302.
- 220x. *American Government, National and State.* 2 sem. hours.
Meets minimum requirements for teacher certification. Both terms.
First term. 10-11 M-S, Room 302.
Second term. 10-11 M-S, Room 302.
- 333x. *American Political Parties, Party Development.* 3 sem. hours. Prerequisite: Govt. 131x-2x.
First term. 7-8:30 T-S, Room 312. Mr. Jackson.
- 334x. *American Political Parties, Party Analysis.* 3 sem. hours.
Prerequisite: Govt. 131x-2x.
Second term. 7-8:30 T-S, Room 312. Mr. Jackson.
- 431x. *American Constitutional Law.* 3 sem. hours. Prerequisite: Govt. 131x-2x or American history.
First term. 10-11:30 T-S, Room 312. Mr. Ogdon.
- 432x. *American Constitutional Law.* 3 sem. hours. (Continuation of 431x).
Second term. 10-11:30 T-S, Room 312. Mr. Ogdon.
- 437x. *Political Geography.* 3 sem hours. Prerequisite: Junior standing.
First term. 11:30-1 T-S, Room 323. Mr. Pender.
- 438x. *World Politics.* 3 sem. hours. Prerequisite: Govt. 131x-2x or 6 consecutive semester hours in history.
Second term. 11:30-1 T-S, Room 323. Mr. Pender.

HISTORY

- 131x. *History of Civilization.* 3 sem. hours.
First term. 8:30-10 M-S, Room 316.
- 132x. *History of Civilization.* 3 sem. hours. (Continuation of 131x.)
Second term. 8:30-10 M-S, Room 316.
- 133x. *Survey of Economic and Political History of England, Prior to 1603.* 3 sem. hours.
First term. 7-8:30 M-S, Room 316.
- 134x. *Survey of Economic and Political History of England, Since 1603.* 3 sem. hours. (Continuation of 133x.)
Second term. 7-8:30 M-S, Room 316.

- 231x. *Survey of Economic and Political History of the United States, to 1829.* 3 sem. hours.
First term. 8:30-10 M-S, Room 214.
- 232x. *Survey of Economic and Political History of the United States, 1829 to Present.* 3 sem. hours. (Continuation of 231x.)
Second term. 8:30-10 M-S, Room 214.
- 330x. *Teaching of History in the High School.* 3 sem. hours.
Prerequisite: 12 sem. hours of history; 12 sem. hours of education.
Second term. 10-11:30 T-S, Room 316. Mr. Eaves.
- 335x. *Contemporary Europe, from 1870 to the Present.* 3 sem. hours.
First term. 10-11:30 T-S, Room 316. Mr. Eaves.
- 3310x. *England before 1485.* 3 sem hours.
Second term. 11:30-1 T-S, Room 316. Mr. Ford.
- 4310x. *Expansion of the United States.* 3 sem. hours.
Second term. 7-8:30 T-S, Room 214. Mr. McKay.
- 4315x. *Constitutional Development in Texas.* 3 sem. hours.
First term. 7-8:30 T-S, Room 214. Mr. McKay.
- 535x. *The Technique of Research.* 3 sem hours. Open to senior history majors and required of all graduate students majoring in history.
First term. 11:30-1 T-S, Room 316. Mr. Ford.

Anthropology

- 336x-7x. *Mexican Archaeology.* 6 sem. hours. Prerequisite: Consent of the instructor. Instruction will be given by Professor Holden and by professors of the University of Mexico in practical Spanish, the history, art and archaeology of Mexico. The museums, art galleries, thieves market, national pawn shop, parks and palaces of the city will be visited and frequent trips will be made to nearby points of interest such as Teotihuacan, Cuernavaca, Taxco and Xochimilco. A four day optional trip is planned into Oaxaco to famous Monte Alban.
Second term. Mr. Holden.
For further information, address Dr. W. C. Holden, care of this institution.

MATHEMATICS

- 121x. *College Algebra.* 2 sem. hours. Prerequisite: one and one-half units of high school algebra.
First term. 7:30-8:30 M-S, Room T107.

- 122x. *College Algebra*. 2 sem. hours. (Continuation of 121x.)
Second term. 10-11 M-S, Room T107.
- 131x. *Plane Trigonometry*. 3 sem. hours. Prerequisite: one unit of high school algebra and one unit of plane geometry.
First term. 8:30-10 M-S, Room E251.
- 132x. *Analytic Geometry*. 3 sem. hours. Prerequisite: Math. 131x.
Second term. 8:30-10 M-S, Room 206.
- 137x. *Business Mathematics*. 3 sem. hours.
First term. 11:30-1 M-S, Room E251.
- 138x. *Business Mathematics*. 3 sem. hours. (Continuation of 137x.)
Second term. 11:30-1 M-S, Room 206.
- 220x. *Teaching of Arithmetic*. 2 sem. hours. Prerequisite: Consent of instructor. For teachers of arithmetic in the first seven grades.
First term. 8:30-9:30 M-S, Room T107.
- 233x. *Applications of the Calculus*. 3 sem. hours. Prerequisite: Math 251x.
First term. 11:30-1 M-S, Room 206.
- 335x. *Differential Calculus*. 3 sem. hours. Prerequisite: Math. 132x or its equivalent.
First term. 7-8:30 T-S, Room 206. Mr. Michie.
- 336x. *Integral Calculus*. 3 sem hours. (Continuation of 335x.)
Second term. 7-8:30 T-S, Room 206. Mr. Michie.
- 427x. *Modern Higher Geometry*. 2 sem. hours. Prerequisite: The consent of the instructor.
First term. 10-11 T-S, Room T107. Mr. Heineman.
- 620x. *Introduction to the Theory of Finite Groups*. 2 sem. hours. Prerequisite: Consent of the instructor.
First term. 11:30-12:30 T-S, Room T107. Mr. Heineman.

MUSIC

- 131x. *Elementary Music*. 3 sem. hours.
First term. 8:30-10 M-S, Room 312.
- 133x. *Music-Education*. 3 sem. hours.
First term. 11:30-1 M-S, Room 312.
- 137x. *History and Appreciation*. 3 sem hours.
Second term. 8:30-10 M-S, Room 312.

- 234x. *Music-Education*. 3 sem. hours.
Second term. 11:30-1 M-S, Room 312.

PHILOSOPHY

- 234x. *The History of Philosophy*. 3 sem. hours.
First term. 7-8:30 M-S, Room E204. Mr. Cunningham.

PHYSICAL EDUCATION (MEN)

- 113x. *Physical Training*. 1 sem. hour.
First term. Sec. 1, 8:30-9:30 M-S, Gym.
Sec. 2, 11:30-12:30 M-S, Gym.
- 114x. *Physical Training*. 1 sem. hour. (Continuation of 113x.)
Second term. Sec. 1, 8:30-9:30 M-S, Gym.
Sec. 2, 11:30-12:30 M-S, Gym.
- 213x. *Physical Education*. 1 sem. hour.
First term. Sec. 1, 8:30-9:30 M-S, Gym.
Sec. 2, 11:30-12:30 M-S, Gym.
- 214x. *Physical Education*. 1 sem. hour. (Continuation of 213x.)
Second term. Sec. 1, 8:30-9:30 M-S, Gym.
Sec. 2, 11:30-12:30 M-S, Gym.
- 237x. *Technique of Sports*. 3 sem. hours.
First term. 7-8:30 M-S, Room T205.
- 238x. *Technique of Sports*. 3 sem. hours. (Continuation of 237x.)
Second term. 7-8:30 M-S, Room T205.
- 431x. *Methods of Coaching*. 3 sem. hours.
First term. 10-11:30 T-S, Room T205. Mr. Cawthon.
- 442x. *Coaching School*. 4 sem. hours. (6 term hours)
Second term. (July 30--August 11.)
For further description see pages 18 and 19 of this bulletin.

PHYSICAL EDUCATION (WOMEN)

- 111x. *Fundamentals in Gymnastics and Rhythms*. 1 sem. hour.
First term. 7-8:30 MTWT, Gym.
- 112x. *Stunts, Games and Sports*. 1 sem. hour.
Second term. 7-8:30 MTWT, Gym.
- 210x. *Clogging*. 1 sem. hour.
Second term. 8:30-10 MTWT, Gym.
- 212x. *Tennis*. 1 sem. hour.
First term. 7-8:30, MTWT, Tennis Court.

- 2112x. *Swimming*. 1 sem. hour. Both terms.
First term. 4-5:30 MTWT, Swimming Pool.
Second term. 4-5:30, MTWT, Swimming Pool.
- 230x. *Principles of Health Education*. 3 sem. hours. For women and men.
First term. 8-30-10 M-S. Room T205.
- 232x. *Physiology of Exercise*. 3 sem hours. For women and men.
Second term. 11:30-1 M-S, Room T205.
- 233x. *Methods in Elementary Physical Education*. 3 sem. hours. For women and men.
First term. 10-11:30 M-S, Gym.
- 234x. *Methods in Secondary Physical Education*. 3 sem. hours. For women and men.
Second term. 11:30-1 M-S, Gym.
- 235x. *Technique of Sports*. 3 sem hours. For women only.
First term. 8:30-10 M-S, Gym.
- 236x. *Methods in Teaching Rhythmical Activities*. 3 sem hours. For women and men.
Second term. 10-11:30 M-S, Gym.

In addition to the above courses, the following non-credit classes will be sponsored by the Physical Education Department for all students who are interested:

Folk Dancing Club—First term, 7-8 p. m., Friday. Gym.

Clogging Club—Second term, 7-8 p. m., Friday. Gym.

Recreational Swimming—Both terms, 7-8 p. m., Wednesday, Swimming Pool.

These classes are open to both men and women students who are regularly enrolled during the summer school. No credit will be given for the work.

PHYSICS

- 131x. *Elements of College Physics*. 3 sem. hours.
First term. 10-11 M-S, Room C116; 2-5 MWF, Room C117.
- 132x. *Elements of College Physics*. 3 sem hours. (Continuation of 131x.)
Second term. 10-11 M-S, Room C116; 2-5 MWF, Room C117.

- 133x. *Freshman Engineering Physics.* 3 sem. hours.
First term. 10-11 M-S, Room C116; 2-5 MWF, Room C117.
- 134x. *Freshman Engineering Physics.* 3 sem. hours. (Continuation of 133x.)
Second term. 10-11 M-S, Room C116; 2-5 MWF, Room C117
- 231x. *Sophomore Physics.* 3 sem. hours. Prerequisite: Physics 133x-4x or its equivalent.
First term. 8:30-9:30 M-S, Room C116; 2-5 MWF, Room C117.
- 232x. *Sophomore Physics.* 3 sem. hours. (Continuation of 231x).
Second term. 8:30-9:30 M-S, Room C116; 2-5 MWF, Room C117.
- 233x. *Teaching of Physics.* 3 sem. hours. Prerequisite: One year college physics; Ed. 131x-2x, or the equivalent. For students who plan to teach physics in high school.
First term. 7-8:30 M-S, Room C116.
- 435x. *Introduction to Modern Physics.* 3 sem. hours. Prerequisite: Physics 231x-2x and Calculus.
First term. 10-11:30 T-S, Room C-U. Mr. George.
- 436x. *Introduction to Modern Physics.* 3 sem hours. (Continuation of 435x.)
Second term. 10-11:30 T-S, Room C-U. Mr. Schmidt.

Note: For the benefit of students who may be behind in freshman and sophomore physics—arts and sciences and engineering—the following arrangement has been made: Those desiring credit for Physics 141 may enroll in 131x; for 143, in 132x; for 144, in 133x; for 145 in 134x; for 241, in 231x; and for 243, in 232x.

SPEECH

- 131x. *Fundamentals of Speech.* 3 sem hours.
First term. 7-8:30 M-S, Room 202.
- 231x. *Technique of Dramatic Art.* 3 sem. hours.
First term. 8:30-10 M-S, Room 202.
- 232x. *Rehearsal and Dramatization.* 3 sem. hours. Prerequisite: Speech 231x.
Second term. 8:30-10 M-S, Room 202.
- 235x. *Argumentation and Debate.* 3 sem. hours.
Second term. 10-11:30 M-S, Room 202.

- 232x. *Phonetics and Speech Correction.* 3 sem. hours. Pre-requisite: Speech 133x; Zoology 235x-6x.
First term. 10-11:30 T-S, Room 202. Miss Pirtle.

BIBLE

- 234x. *The Life of Christ.* 3 sem. hours. Open to all students.
First term. 10-11:30 M-S Mr. Fry

INSCRIPTIONS ON ADMINISTRATION BUILDING, TEXAS TECHNOLOGICAL COLLEGE

NORTH SIDE

To right of main entrance: "Cultivated mind is the guardian genius of democracy. It is the only dictator that freemen acknowledge, the only security that freemen desire."—*Mirabeau B. Lamar*.

To left of main entrance: "Righteousness exalteth a nation, but sin is a reproach to any people."—*Solomon*.

Above third story windows, east end of building, the faces of five outstanding men in American history; namely, Columbus, Washington, Lincoln, Lee, Wilson.

Above third story windows, west end of building, the faces of five outstanding men in Texas history; namely, Houston, Austin, Crockett, Johnston, Hogg.

The great seal of the College.

The great seals of the six nations under the flags of which Texas has been; namely, France, Spain, Mexico, The Republic of Texas, The Confederacy, The United States of America.

The four great institutions of society: Home, State, Church, School.

Seven subjects that the Texas Technological College is designed to teach; namely, Agriculture, Science, Manufacturing, Democracy, Home Making, Art, Literature.

Seven educational products which the Texas Technological College is specifically designed to bring forth; namely, Patriotism, Religion, Industry, Virtue, Wealth, Enlightenment, Citizenship.

SOUTH SIDE

The names of fourteen people, above the archway, showing those lines of human endeavor considered most worthwhile:

For philosophy, Plato and Aristotle.

For poetry, Homer and Shakespeare.

For medicine, Hippocrates.

For divinity, Paul.

For architecture, Michael Angelo.

For teaching, Pestalozzi.

For statecraft, Gladstone.

For pure science, Newton.

For applied science, Pasteur.

For common sense, Franklin.

For invention, Edison.

For science in the vegetable world, Burbank.