

BULLETIN
of the
TEXAS TECHNOLOGICAL COLLEGE

Published Monthly

VOL. XX.

APRIL, 1944

No. 4



Summer Session

Including the Accelerated Plan

1944

Plan I. May 29 to July 7; July 7 to August 16.

Plan II. May 29 to July 7; July 7 to September 1.

Lubbock, Texas

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Lubbock, Texas, under the Act of August 24, 1912.

SUMMER SESSIONS CALENDAR

1944

Plan I

First Term

- May 29. Monday. Summer school begins, 7:30 A. M. Student conferences with deans and heads of departments. Dormitories open, first meal at noon.
- May 30. Tuesday. Registration.
- May 31. Wednesday. Classes begin, 7:30 A. M.
- June 2. Friday. Students registering after today will carry a reduced load and pay late registration fee.
- July 4. Tuesday. A holiday.
- July 5-6. Wednesday and Thursday. Final examinations.
- July 7. Friday. First term ends, 7:30 A.M.

Second Term

- July 7. Friday. Registration for second term.
- July 8. Saturday. Classes begin, 7:30 A.M.
- July 12. Wednesday. Students may not register or add courses after today. Late registration fee charged today.
- August 14-15. Monday and Tuesday. Final examinations.
- August 16. Wednesday. Summer Session Commencement and Graduation Exercises, 8 P.M.

Plan II

The Accelerated Plan

First Term

First Term—Same as calendar for First Term under Plan I.

Second Term

- July 7. Friday. Registration for second term.
- July 8. Saturday. Classes begin, 7:30 A.M.
- July 12. Wednesday. Students may not register or add courses after today. Late registration fee charged today.
- August 30-31. Wednesday and Thursday. Final examinations.
- September 1. Friday. Summer Sessions close. Dormitories close at 10 A.M.

Fall Semester begins September 13, 1944.

BOARD OF DIRECTORS

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OTTO VINCENT ADAMS, B. S. in C. and I. E., M. S. E., Dean of Division of Engineering.

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

JOHN ORVAL ELLSWORTH, B. S., M. S., Ph. D., Dean of Division of Commerce.

ROBERT CABANISS GOODWIN, B. A., M. A., Ph. D., Dean of Division of Graduate Studies and Director of Scientific Research.

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WILLIAM CURRY HOLDEN, B. A., M. A., Ph. D., Dean and Director of Anthropological, Historical, and Social Science Research, and Curator of the West Texas Museum.

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

JAMES GEORGE ALLEN, B. A., M. A., Dean of Men.

WARREN PERRY CLEMENT, B. A., M. A., Registrar.

EMMA LILLIAN MAIN, B. A., Acting Librarian.

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

JACOB HOMER MILLIKIN, B. A., M. A., Acting Director of Extension.

HARRY LLEWELLYN KENT, A. B., B. S., M. S., LL. D., Administrative Assistant.

OFFICERS OF INSTRUCTION

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

CLIFFORD B. JONES, President 1923, 1939.

LL. D., McMurray, LL. D., Texas Technological College; LL. D., Southwestern.

OTTO VINCENT ADAMS, Dean of Engineering and Professor of Civil Engineering, 1927, 1932.

B. S. in C. and I. E., Colorado State College; M. S. E., Michigan.

JAMES GEORGE ALLEN, Dean of Men and Professor of English, 1927, 1940.

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

PAUL ARNOLDS-PATRON, Assistant Professor of Economics, 1942.

B. S., M. B. A., New York.

MARGARET BRASHEARS ATKINSON, Assistant Professor of Engineering Drawing, 1934, 1942.

B. S., Texas State College for Women.

ARCHIE J. BAHM, Associate Professor of Philosophy and Sociology, 1934, 1941.

B. A., Albion College; M. A., Ph. D., Michigan.

ALBERT BARNETT, Professor of Education and Assistant Dean of Division of Arts and Sciences, 1933, 1939.

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

NEVA DEEN BAVOUSETT, Instructor in Foods and Nutrition, 1942.

B. S., M. S., Texas Technological College.

WILLIAM E. BECK, First Lieutenant, Signal Corps, United States Army; Assistant Professor of Military Science and Tactics, 1942.

B. S., in E. E., Georgia School of Technology.

HELENE BLATTNER, Associate Professor of Speech, 1942.

B. A., M. A., Iowa.

JULIEN PAUL BLITZ, Professor and Head of Department of Music, 1934.

Laureate cum Laude, Royal Government Conservatory, Ghent, Belgium; D. Mus., Austin College.

LEROY L. J. BOOTH, First Lieutenant, Signal Corps, United States Army; Assistant Professor of Military Science and Tactics, 1942.

B. S., West Chester State Teachers College.

BERNICE DENA BORGMAN, Assistant Professor of Child Development and Family Relations, 1941.

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

JOHNE BOWLES, Assistant Professor of Home Economics Education, 1940-1941.

B. A., Louisiana State Normal College; M. S., Iowa State College.

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

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

SANNIE CALLAN, Professor and Head of Department of Child Development and Family Relations, 1936, 1937.

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

PAUL CAMPBELL, Sergeant, United States Army; Assistant Instructor in Military Science and Tactics, 1943.

- OLGA M. CARTER, Instructor in English, 1939.
B. A. Dickinson College; M. A., Chicago.
- H. PAUL CASTLEBERRY, Instructor in Government, 1943.
B. A., M. A., Texas Technological College.
- RAY LEON CHAPPELLE, Professor and Head of Department of Agricultural Education, 1936, 1937.
B. S., Agricultural and Mechanical College of Texas; M. S., Texas Technological College.
- LEWIS B. COOPER, Associate Professor of Education and Psychology, 1938.
B. S., North Texas State Teachers College; M. A., Texas; Ph. D., Cincinnati.
- WILLIAM MOORE CRAIG, Professor of Chemistry, 1926.
B. A., M. A., Southwestern; M. A., Texas; Ph. D., Harvard.
- ALBERT BENJAMIN CUNNINGHAM, Professor of English, 1929.
B. A., Muskingum; B. D., Drew; M. A., Ph. D., New York; Litt. D., Lebanon.
- GARNETT DAVIS, Instructor in Accounting, 1943.
B. B. A., Texas Technological College; M. S., Texas Agricultural and Mechanical College.
- CHARLES GARFIELD DECKER, Assistant Professor of Civil Engineering, 1938, 1941.
B. S., M. S., in C. E., Michigan.
- JULES DE LAUNAY, Associate Professor of Physics, 1941.
A. B., Howard College; B. A., M. A., Oxford University; Ph. D., Stanford.
- JOE DENNIS, Assistant Professor of Chemistry, 1938, 1941.
B. A., Austin College; M. A., Ph. D., Texas.
- FRED M. DIXON, Sergeant, United States Army; Assistant Instructor in Military Science and Tactics, 1943.
- MARY WOODWARD DOAK, Professor of English and Dean of Women, 1925.
B. A., Texas; M. A., Texas Technological College.
- RICHARD L. DOLECEK, Associate Professor of Physics, 1942.
B. A., M. A., Ph. D., Kansas.
- BONNIE K. DYSART, Associate Professor of Education and Psychology, 1927, 1928.
B. S., M. A., Texas.
- CHARLES DUDLEY EAVES, Professor of History, 1925, 1940.
B. A., Texas; M. A. Chicago; Ph. D., Texas.
- LUTA P. EAVES, Assistant Professor of Accounting and Secretarial Studies, 1941, 1942.
B. B. A., M. B. A., Texas Technological College.
- JOHN ORVAL ELLSWORTH, Dean of Commerce and Professor of Marketing, 1928, 1942.
B. S., Utah State Agricultural College; M. S., Ph. D., Cornell.
- MABEL D. ERWIN, Professor and Head of Department of Clothing and Textiles 1926.
B. S., Purdue; M. A., Columbia.
- RAYMOND ERNEST GARLIN, Professor and Head of the Department of Education and Psychology, 1927, 1943.
B. A., M. A., Ph. D., Texas.
- EUNICE JOINER GATES, Associate Professor of Spanish, 1925, 1937.
B. A., M. A., Southwestern; M. A., Michigan; Ph. D., Pennsylvania.
- WILLIAM BRYAN GATES, Professor and Head of Department of English, 1925, 1941.
B. S., Millsaps; M. A., Vanderbilt; M. A., Michigan; Ph. D., Pennsylvania.

- LUCILE AVO POWELL GILL, Associate Professor of English, 1926, 1943.
B. A., M. A., Texas.
- HARRY FREDERICK GODEKE, Professor and Head of Department of Mechanical Engineering, 1930.
B. S. in M. E., M. E., M. S., Illinois.
- ROBERT CABANISS GOODWIN, Professor and Head of Department of Chemistry and Chemical Engineering, 1930, 1938.
B. A., Howard Payne; M.A., Texas; Ph. D., Harvard.
- JAMES MARCUS GORDON, Dean of Division of Arts and Sciences, Director of the Summer Session, 1925, 1939.
B. A., Trinity; M. A., Chicago; LL. D., Trinity.
- WILLARD FRANKLIN GRAY, Associate Professor of Electrical Engineering, 1937, 1943.
B. S. in E. E., Texas Technological College; M. S. in E. E., Agricultural and Mechanical College of Texas.
- T. EARLE HAMILTON, Assistant Professor of Spanish, 1940, 1943.
A. B., A. M., Southern Methodist; Ph. D., Texas.
- FRANK EDWARD HANGS, Major, Corps of Engineers, United States Army; Professor and Head of Military Science and Tactics, 1941.
B. S. in M. E., M. S. in M. E., Illinois.
- FRED GEORGE HARBAUGH, Professor of Animal Husbandry and Veterinarian, 1927, 1941.
B. S., D. V. M., Iowa State College.
- JOHN COYNE HARDGRAVE, Associate Professor of Mechanical Engineering, 1926, 1939.
- MARSHALL BENTON HARRISON, Associate Professor of Agricultural Economics and Farm Management, 1936, 1941.
B. S., New Mexico Agricultural and Mechanical College; M. S., Kansas State College.
- VELMA FLOYD HARRISON, Instructor in Physical Education for Women, 1941.
B. A., Howard Payne; M. Ed., Texas.
- ELIZABETH HAWLEY, Assistant Professor of Applied Arts, 1934, 1937.
B. A., Oberlin; M. A., Columbia.
- HAROLD M. HEFLEY, Instructor in Zoology, 1939.
B. S., M. S., Ph. D., Oklahoma.
- ELLIS RICHARD HEINEMAN, Associate Professor of Mathematics, 1928, 1939.
B. A., M. A., Wisconsin.
- WILLIAM FRANK HELWIG, Professor of Electrical Engineering, 1928, 1935.
B. S. in E. E., Minnesota; M. S. in E. E., Texas; E. E., Minnesota.
- CARL HENNINGER, Associate Professor of German, 1926, 1929.
B. A., Indiana, M. A. Illinois.
- ALAN FAGER HERR, Assistant Professor of English, 1941, 1943.
A. B., Franklin and Marshall College; M. A., Ph. D., Pennsylvania.
- WILLIAM CURRY HOLDEN, Professor and Head of Department of History and Anthropology, 1929, 1938.
B. A.; M. A., Ph. D., Texas.
- CECIL HORNE, Professor and Head of Department of Journalism, 1926, 1937.
B. A., Baylor; B. A., Yale.
- DOYLE D. JACKSON, Professor of Education, 1934, 1941.
B. A., M. A., Texas; Ph. D., Arizona.

- WILLIAM MORLEY JENNINGS**, Professor and Head of Department of Physical Education for Men, Director of Athletics, 1941.
B. A., Mississippi Agricultural and Mechanical College;
- ADA VIVIAN JOHNSON**, Professor and Head of Department of Home Economics Education, 1928, 1937.
B. S., Southwest Texas State Teachers College; M. A., Columbia.
- LILA ALLRED KINCHEN**, Instructor in Clothing and Textiles, 1939.
B. S., M. S., Texas Technological College.
- OSCAR ARVLE KINCHEN**, Professor of History, 1929, 1939.
B. A., M. A., Okla; Ph. D., Iowa.
- FLORIAN ARTHUR KLEINSCHMIDT**, Professor and Head of 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.
- MILTON FREDERIC LANDWER**, Associate Professor of Zoology, 1927.
B. S., Northwestern; M. A., Nebraska; Ph. D., Michigan.
- JOHNNYE GILKERSON LANGFORD**, Professor and Head of Department of Physical Education for Women, 1925, 1943.
B. B. A./ Texas; M. A., Southern California.
- T. L. LEACH**, Associate Professor of Agricultural Education and Itinerant Teacher Trainer, 1937, 1939.
B. S., M. S., Texas Technological College.
- BESSIE BEAKLEY LEAGUE**, Associate Professor of Zoology, 1926, 1927.
B. A., M. A., Ph. D., Texas
- ARTHUR HENRY LEIDIGH**, Dean of Agriculture and Professor of Agronomy, 1925.
B. S., Kansas State College; M. S., Agricultural and Mechanical College of Texas.
- JOSEPHINE LOONEY**, Assistant Professor of Clothing and Textiles, 1933, 1940.
B. S., Minnesota; M. A., Columbia.
- ELMER LEON MCBRIDE**, Professor and Head of Department of Agricultural Economics, Farm Management and Rural Sociology, 1935, 1937.
B. S., M. S., Oklahoma Agricultural and Mechanical College.
- SETH SHEPARD MCKAY**, Professor of History, 1928, 1940.
B. A., M. A., Texas; Ph. D., Pennsylvania.
- FITZHUGH LEE McREE**, Professor of Civil Engineering, 1927, 1942.
B. S. in C. E., M. S. in C. E., Texas.
- MARGARET BASKIN MANICAPPELLI**, Assistant Professor of Physical Education for Women, 1935, 1941.
B. A., Texas Technological College, M. Ed., Texas.
- HULDA WILD MARSHALL**, Assistant Professor of Chemistry, 1925, 1937.
B. A., Texas; M. A., Texas Technological College.
- ROBERT LOUIS MASON**, Instructor in Mechanical Engineering, 1942.
B. S. in M. E., Texas Technological College.
- LIDA B. MAY**, Instructor in Mathematics, 1938.
B. A. Alabama; M. A., Texas.
- GEORGE P. MECHAM**, Director of Field Studies in Education, 1943.
B. S., North Texas State Teachers College, M. A., Columbia; Ph. D., Peabody.
- JAMES NEWTON MICHIE**, Professor and Head of Department of Mathematics, 1925.
B. S. in Engineering, Virginia; M. A., Michigan.
- JONNIE McCRERY MICHIE**, Professor and Head of Department of Foods and Nutrition, 1925.
B. S., M. A., Columbia.

- RUFUS ARTHUR MILLS, Professor of English, 1926.
B. A., M. A., Texas.
- JUANITA BRATTON MOONEY, Instructor of Secretarial Studies, 1943.
A. B., University of Missouri; M. A., Washington University.
- RAY CLIFFORD MOWERY, Professor of Animal Husbandry, 1926, 1935.
B. S., Agricultural and Mechanical College of Texas; M. S., Iowa State College.
- JAMES HAROLD MURDOUGH, Professor and Head of Department of Civil Engineering, 1925, 1927.
S. B., Massachusetts Institute of Technology; M. S. E., Michigan.
- DONALD VAN DALE MURPHY, Associate Professor of English, 1926, 1935.
B. A., Tulsa; M. A., Columbia.
- DORIS NESBITT, Assistant Professor of Home Economics Education, 1943.
B. A., Oklahoma; M. S., Iowa State College.
- ROBERT L. NEWELL, Assistant Professor in Mechanical Engineering, 1941, 1942.
B. S. in M. E., Texas Technological College.
- HAL CORBIN NORMAND, Instructor in Civil Engineering, 1942.
B. S. in C. E., Texas.
- AARON GUSTAF OBERG, Assistant Professor of Chemical Engineering, 1936, 1939.
B. S. in Ch. E., M. S., Ph. D., Colorado.
- DEAN ROBERTS PARKER, Instructor in Zoology, 1939.
B. A., Ph. D., Texas.
- LEROY THOMPSON PATTON, Professor and Head of Department of Geology and Petroleum Engineering, 1925, 1938.
B. A., Muskingum; B. S., Chicago; M. S., Ph. D., Iowa.
- HARDISON CECIL PENDER, Professor and Acting Head of Department of Government, 1926, 1938.
B. A., North Texas State Teachers College; M. A., Baylor.
- ANNAH JO PENDLETON, Professor and Head of Department of Speech, 1927, 1943.
B. A. and Diploma in Oratory, Texas Christian University; Diploma School of Speech, Northwestern; M. A., Iowa.
- CONNER COLUMBUS PERRYMAN, Associate Professor of Engineering Drawing, 1929, 1940.
B. S., North Texas State Teachers College.
- MARTYE POINDEXTER, Professor and Head of Department of Applied Arts, 1935.
Ph. B., Chicago; M. A., Texas State College for Women.
- CHARLES BLAISE QUALIA, Professor and Head of Department of Foreign Languages, 1925, 1937.
B. A., M. A., Ph. D., Texas.
- LEO C. RIETHMAYER, Associate Professor of Government, 1938, 1944.
B. A., M. A., Texas Technological College; Ph. D., Iowa.
- KENNETH MILLER RENNER, Professor and Head of Department of Dairy Manufactures, 1927, 1931.
B. S., Iowa State College, M. S., Kansas State College.
- LUCILE ROBINSON, Assistant Professor of Secretarial Studies, Management, and General Business, 1924, 1942.
B. A., Hardin-Simmons; M. A., Colorado.
- JAMES THOMAS SHAVER, Associate Professor of Education, 1927.
B. S., Sam Houston State Teachers College; M. A., Columbia.
- RAYMOND GILBERT SIDWELL, Associate Professor of Geology, 1928, 1939.
B. A., M. A., Ph. D., Iowa.

- GERALDINE DAVIS SIMMONS, Instructor in Secretarial Studies, 1943.
B. B. A., Texas Technological College.
- JOHN MARVIN SIPE, Associate Professor and Acting Head of Department of Accounting and Finance, 1943.
A. B., Ball State Teachers College; A. M., Ed. D., Indiana University.
- WILLIAM MACKEY SLAGLE, Associate Professor of Chemistry, 1926, 1937.
B. A., Southwestern; M. A., Texas.
- GEORGE SMALLWOOD, Professor of English, 1925.
B. A., Southwestern; M. A., Southern Methodist.
- FRED WINCHELL SPARKS, Professor of Mathematics, 1926, 1928.
B. S., M. A., Southwestern; M. S., Ph. D., Chicago.
- WENZEL LOUIS STANGEL, Professor and Head of Department of Animal Husbandry, 1925.
B. S., Agricultural and Mechanical College of Texas; M. S., Missouri.
- ALFRED BELL STREHLI, Assistant Professor of Spanish, 1928.
B. A., B. S., M. A., Ohio State.
- J. D. STRICKLAND, Assistant Professor of Animal Husbandry, 1939.
B. S., Texas Technological College; M. S., Agricultural and Mechanical College of Texas.
- ALAN LANG STROUT, Professor of English, 1928, 1937.
B. A., Dartmouth; M. A., Chicago; M. A., Wisconsin; Ph. D., Yale.
- OSCAR ALLEN ST. CLAIR, Professor and Head of Department of Industrial Engineering and Engineering Drawing, 1934.
B. S. in E. E., Armour Institute of Technology.
- RICHARD ARTHUR STUDHALTER, Professor of Botany and Head of Department of Biology, 1925.
B. A., Texas; M. A., Washington University; Ph. D., Chicago.
- GUSSIE LEE TEAGUE, Associate Professor of English, 1926, 1943.
B. A., Oklahoma; M. A., Colorado.
- ETHEL KING TERRELL, Assistant Professor and in charge of Secretarial Studies, 1942.
B. A., Baylor; M. A., Texas Technological College.
- EARL L. THOMPSON, Professor of Mathematics, 1928, 1939.
B. A., Kansas State Teachers College; M. A., Kansas; Ph. D., Chicago.
- AGNES ANN TRUE, Associate Professor of Education and Psychology, 1934, 1940.
B. A., M. A., Ph. D., Michigan.
- MAYME LUCINDA TWYFORD, Associate Professor of Foods and Nutrition, 1928.
B. S., West Virginia; M. A., Columbia.
- FRANCES K. URBAN, Assistant Professor of Home Management, 1942.
B. S., Missouri; M. S., Iowa State.
- ERNEST WALLACE, Associate Professor of History, 1936, 1941.
B. S., East Texas State Teachers College; M. A., Texas Technological College; Ph. D., Texas.
- MARGARET WATSON WEEKS, Dean of Home Economics and Professor of Nutrition, 1925.
B. S., M. S., Columbia.
- NOLABELLE WELCH, Assistant Professor of Marketing, Salesmanship, General Business and Secretarial Studies, 1943.
B. S., East Texas State Teachers College; M. A., Highlands University; M. A., University of Iowa.
- THOMAS F. WIESEN, Professor and Acting Head, Department of Economics and Management, 1940, 1943.
B. S., Agricultural and Mechanical College of Texas; M. B. A., Pennsylvania.

- DEWEY O. WILEY**, Professor of Music and Director of Band, 1934, 1941.
B. Mus., Simmons; Pupil of Carl Venth, E. Clyde Whitlock, Jacques Gordon.
- FLOYD LOUIS WILLIAMS**, Instructor in Mechanical Engineering, 1942.
B. S. in M. E., Texas Technological College.
- RAMOND HENDRY WILLIAMS**, Instructor in Architecture and Allied Arts
1938, 1939.
B. S., Utah; M. S., Wisconsin.
- WARREN WATSON YOCUM**, Professor of Horticulture, 1937, 1943.
B. S., Northeast Missouri State Teachers College; M. A., Missouri; Ph. D., Nebraska.
- ARTHUR W. YOUNG**, Professor of Agronomy and Head of Department of
Plant Industry, 1935, 1938.
B. S., M. S., Ph. D., Iowa State College.

INSTRUCTORS IN MUSIC

(Available to students, but not paid from College funds.)

- FLORA BRIGGS BLITZ**, Piano, Piano Accompaniment.
Pupil of Marclan Thalberg, Cincinnati Conservatory; John Steinfeldt, San Antonio College of Music.
- EMMA SLATER SCOGGIN**, Voice.
B. Mus., Ottawa University.
- MYRTLE DUNN SHORT**, Voice, Piano, Piano Accompaniment.
B. Mus., Chicago Musical College.

DIVISION OF GRADUATE STUDIES

- ROBERT CABANISS GOODWIN**, Dean of Division of Graduate Studies and
Director of Scientific Research, 1930, 1938.
B. A., Howard Payne; M. A., Texas; Ph. D., Harvard.

VISITING TEACHER

- GRACE PADLEY**, Director of Guidance in the Lubbock City Schools.
A. B., Wisconsin; M. A., Northwestern.

DIVISION OF EXTENSION

- JACOB HOMER MILLIKIN**, Acting Director of Extension, 1938, 1943.
B. A., Baylor; M. A., Texas Technological College.

OFFICE OF THE REGISTRAR

- WARREN PERRY CLEMENT**, Registrar, 1926, 1933.
B. A., M. A., Baylor.
- FLORENCE EVELYN CLEWELL**, Assistant Registrar, 1929, 1933.
B. A., Oklahoma.

LIBRARY STAFF

- EMMA L. MAIN**, Acting Librarian, 1926, 1942.
B. A., North Texas State Teachers College.
- ELIZABETH HOWARD WEST**, Librarian Emerita, 1925, 1942.
B. A., Mississippi State College for Women; B. A., M. A., Texas.
- LULU STINE**, Assistant Librarian, 1930, 1942.
B. A., Texas; M. A., Texas Technological College.

LUELLA SYBIL RYSTROM, Cataloguer and Documents Librarian, 1937, 1942.

B. S., M. A., Nebraska.

RUTH L. JACKSON, Reference Librarian, 1943.

B. A., B. S., in L. S., M. A., Illinois.

GERTRUDE BRANDES, Loan Librarian, 1939, 1943.

B. A., Baylor; B. S. in L. S., Columbia.

MIRIAM TURNER, Loan and Reference Assistant, 1943.

B. A., Texas State College for Women.

FERRELLINE TUCKER, Secretary to the Librarian, 1942.

B. A., Texas Technological College.

SUMMER SCHOOL COMMITTEE

CLIFFORD B. JONES, President, Ex-officio:

A. H. LEIDIGH

R. C. GOODWIN

O. V. ADAMS

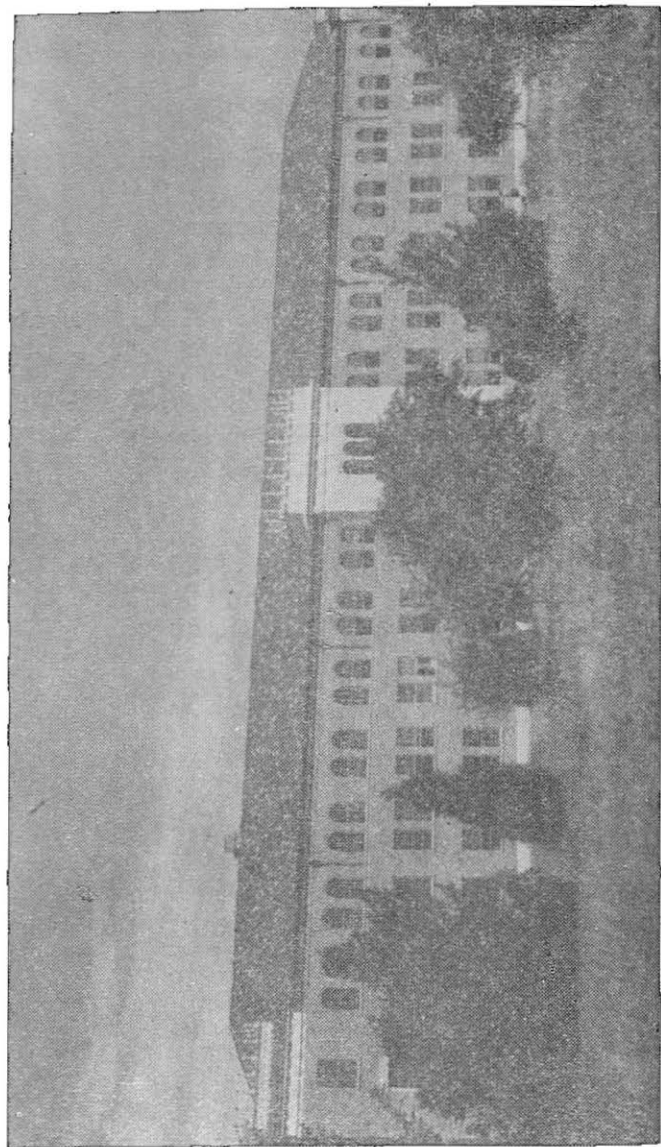
R. E. GARLIN

MARGARET W. WEEKS

J. O. ELLSWORTH

W. P. CLEMENT

J. M. GORDON, Chairman



The New Women's Dormitory

THE SUMMER SESSION OF 1944

Immediately after Pearl Harbor, when it seemed that colleges would be used in helping prepare soldiers, Texas Technological College offered its services to any way they could be used and these were accepted by the United States Army. The College has a right to be pardonably proud of the help it has been able to render to the Army. Three of the four large dormitories, with a capacity of 320 persons for each dormitory, with two in a room, were made into barracks for the army men. The new Agriculture Building, which had just been erected at a cost of \$300,000, was given over for army personnel to the end that the best job possible might be done. The College is continuing in this cooperation and in furnishing facilities to the government.

This service to the Armed Forces, however, has not prevented the College from doing good work for the regular college civilian students. This applies to each of the six divisions: the Divisions of Agriculture, Home Economics, Engineering, Commerce, Arts and Sciences, and the Division of Graduate Studies. This is particularly true with reference to the summer school. Beginning with the summer of 1942, there was set up an accelerated program enabling students to get a maximum of fifteen weeks in the summer school, or practically a full semester of work; whereas, heretofore, only twelve weeks of work were available. This plan has proved very helpful in the summers that it has been in operation. Last summer more students enrolled for the second term of nine weeks than were enrolled for the second six weeks. Entering freshmen took advantage of the accelerated program in large numbers. A number of college students, therefore, in twelve months secured credits equal to one and one-half calendar years. The accelerated plan will be continued for the summer of 1944.

Because of the type and kind of industry throughout this area, the College recognizes that students frequently can attend college best at certain seasons of the year. Particular effort is made to provide courses in the spring and in the summer session for students who do not wish to attend college during the fall semester. This is because in certain types of transportation, business and agriculture, a very large percentage of the year's business occurs in September, October, November, and December. The student is thus able to attend college in an approximately normal manner and at the same time be fully engaged earning his living in the busiest season of the year, which here is the fall season. Similarly, it is usually possible for a student not to attend regularly at some other time of the year.

It is interesting to note, also that the College has not increased its fees of last summer, nor will cost for board and room in the dormitory be higher than in the regular long session or for the last summer session; and there will be a program such that any regular student can get practically the courses he wants in the summer session. One hundred and thirty-nine professors and instructors will give approximately 319 courses in the fifteen weeks of the coming summer session. The College is exceedingly anxious to meet its responsibilities to civilian students as well as to students of the Armed Forces.

Organization of the Summer Session

The Summer Session of 1944 again offers a double program, as follows:

Plan I. May 29 to July 7; July 7 to August 16.

Plan. II May 29 to July 7; July 7 to September 1.

Plan I is the regular twelve-week session just as it has been in past years, for juniors, seniors, graduates, and for a limited number of sophomores and

freshmen who prefer this plan. Plan II, designed especially for freshman and sophomore students, enables them to complete a maximum of work in a minimum of time. Graduation will be held at the close of the second six-week term, Wednesday, August 16.

Young High School Graduates

Some high school graduates enter college before they are 18 years old and may be sufficiently advanced in college to meet the time requirements for graduation when they register for service. Obviously, it is important that the high school graduate, who may wish the consideration provided for, must begin his college work at the earliest possible moment and continue it aggressively thereafter.

In all branches of the armed forces, great importance is placed on educational advancement. Immediate college attendance is the procedure advised for the ambitious young man regardless of his proposed course of action when he becomes 18 years of age.

Undergraduate Degrees

The regular undergraduate degrees are given: namely, Bachelor of Arts, Bachelor of Business Administration, Bachelor of Science with certain majors in Commerce, Bachelor of Science in Agriculture with majors in the various departments, Bachelor of Science in the various fields of Engineering, and the various degrees in Home Economics; Bachelor of Architecture, Bachelor of Commercial Art, Bachelor of Science in various sciences, and Bachelor of Science in Education. While all these degrees are standard, the number of semester hours required varies according to the curriculum followed. In some of the degrees foreign language is required; whereas in others, a greater amount of science or technical subjects is required.

Graduate Degrees

Degrees: The degrees, Master of Arts, Master of Business Administration, Master of Education, and Master of Science are awarded by Texas Technological College upon the completion of the various requirements for these degrees as set forth below:

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

For more definite regulations and requirements concerning all phases of graduate work, those interested are referred to the Graduate Bulletin or to the regular catalogue of the College.

Arrangements for graduate work should be completed before registration date. Please address inquiries to Dean of the Division of Graduate Studies.

Deferment of Students

The Army Specialized Training Program is providing for the specialized training of a number of men in Texas Technological College. These students are selected by the Army and are not selected by the College. This program is not given further consideration here.

Occupational deferment of other students than those mentioned in the preceding paragraph will be limited to a number sufficient to meet civilian needs in war production and in support of the war effort. In certain fields, a student over 18 years of age who will graduate from college before July 1, 1944, should be considered (by draft boards) for deferment if he was certified by the College by February 15, 1944.

Students who will graduate after July 1, 1944, likewise may be considered for deferment for 24 months on a national quota basis if studying Chemistry, Engineering, Geology, Geophysics, or Physics.

Students in pre-medical, pre-dental, pre-veterinary, pre-osteopathic, and pre-theological fields likewise may be considered for deferment for 24 months on a national quota system under certain regulations.

For further information, address Dr. Harry L. Kent, Administrative Assistant, Texas Technological College, Lubbock, Texas.

The College Bookstore

The College Bookstore, located on the campus, is owned and operated by the College. The Bookstore carries in stock all required textbooks, 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 close of the summer term the Bookstore will purchase from students any books which are to be used in the College the following year.

The Library

The Library provides ample reading room space for all students. The collection is fairly adequate in reference books, both general and special, and in treatises on subjects taught in the College; the number of volumes catalogued being approximately 87,269. The periodicals and newspapers received regularly, by subscription and by gift, number 700. The Library has been a depository for federal documents since 1933. A microfilm reader in the Reference Room is available for use by faculty and students.

Regularly, the Library is open from 7:30 A. M. to 10:00 P. M. on Mondays through Fridays, and from 7:30 A. M. to 5:00 P. M. on Saturdays. If military units are receiving college training on the campus, it will be open from 7:30 A. M. to 10:00 P. M. on Mondays through Fridays; from 7:30 A. M. to 6:00 P. M., and 7:00 P. M. to 10:00 P. M. on Saturdays; and from 1:00 to 6:00, and 7:00 to 10:00 P. M. on Sundays.

Housing Facilities

Women's dormitory number one will be open to women students of the summer school and to married couples at no increase in cost of board and room. Inquiries concerning reservation of rooms in the College dormitory should be addressed to the Manager of Dormitories, Texas Technological College, Tech Station, Lubbock, Texas.

Adequate housing facilities will be available outside the dormitories in

adjacent parts of town. All outside living quarters must be under the supervision of the Student Housing Committee, and approval of the student's residence must be secured from the Dean of Men or the Dean of Women. Inquiries regarding room reservations in homes in Lubbock should be addressed to the Chairman of the Student Housing Committee.

The cost of board and room in the dormitory will be \$45.00 per term of six weeks and \$67.50 per term of nine weeks, payable monthly in advance. The cost for corner rooms will be \$46.50 for six weeks and \$69.75 for nine weeks. There are a few single rooms with bath which may be had at a cost of \$56.00 for the six weeks and \$84.75 for the nine weeks, including board. Occupants of the dormitory are expected to furnish linens, towels, and other personal articles needed. Students who do not find it convenient to bring their furnishings can rent them from the dormitory at a cost of \$1.50 per term of six weeks and \$2.25 per term of nine weeks.

Board and room outside the dormitory may also be had at reasonable cost, the cost depending somewhat on the taste of the individual and the arrangements he finds it possible to make.

* Casa Linda, the College cooperative house, is a stucco residence, two stories high, completely furnished except for bedding and linens, which the students are expected to furnish. The house cares for seventeen women students and is under the direction of a member of the faculty. The work is done by the students themselves. A deposit of \$18 a month is made. At the end of the month any excess of the cost is returned to the student. Application for residence in the cooperative house must be made through the office of the Dean of Women.

Summer Session in Local Schools

Fathers and mothers attending the Summer Session of the college may be interested to know that their children will have access to the summer school conducted by the Lubbock City Schools. Work will be offered in both the elementary and high school grades. Those interested should address R. W. Matthews, Acting Superintendent, for full information regarding courses and tuition charges. The school is in session six days a week. The term opens Wednesday, May 24, and closes Saturday, July 8.

Recreation

Recreation activities this summer will follow somewhat the program of the last several summers. Provision has been made on the campus for an outdoor recreational center, the "Green" immediately south of the Administration Building. An interesting program of entertainment features will be provided. Motion pictures, in particular, will be provided. Admission to these recreational programs will be limited to holders of recreation tickets.

It is planned that holders of recreation tickets will have subscription to the summer College paper, special rates at golf courses, local theaters, and the city swimming pool.

A series of dances is sponsored by the College, in addition to the other entertainment features to be held on the campus.

Admission

The Registrar of the College has charge of admission to any Division of the College. All communications regarding admission requirements should be addressed to him.

The admission requirements of the Summer Session are identical with

those of the Long Session and are clearly set forth in the annual catalogue, which may be had on request.

Graduation from an accredited high school with a minimum of fifteen units of credit is required for admission. No credit may be obtained without graduation. Students entering college for the first time will be expected to present a complete transcript of their high school records before registration date.

Admission to Division of Engineering

In addition to the mathematics requirements of the Division of Engineering, students entering that division will be required to present one unit of high school physics. The student with no physics but with one unit of chemistry will be admitted as a conditioned freshman student. High school graduates who cannot meet the requirements of the Division of Engineering are urged to attend summer school at Texas Technological College, where deficiencies both in mathematics and science may be made up by taking certain designated courses. For information, students should communicate with the Registrar.

Admission of Teachers Without Transcripts

Teachers of the Public Schools who are active in the service, and who do not plan to enroll for degree or certificate work in Texas Technological College, may be admitted to summer school without submission of a formal transcript of credits from other colleges. It is distinctly understood, however, that credits gained under this arrangement are not to be counted as credit toward a degree of certification until such transcript has been submitted. Students admitted to the summer school in this manner must present a complete transcript before being admitted to the residence work in the Long Session.

For admission by examination, admission of mature students on condition, admission with conditions, and admission to advanced studies, see statement in the Eighteenth Annual Catalogue.

Expenses

Following are the charges for each student for the twelve-week session (Plan I) and also for the fifteen-week session (Plan II):

Plan I

Tuition at \$16.00 each six-week term	\$ 32.00
(Three credit hours or less, minimum per term, \$10.00)	
The uniform breakage deposit (refundable)	3.00
Recreation fee (not refundable) \$1.00 each term	2.00
Total for twelve weeks	37.00

Plan II

Tuition \$16.00 for the six-week term and \$22.00 for the nine-week term	\$ 38.00
(Three credit hours or less, minimum for term, \$10.00)	
The uniform breakage deposit (refundable)	3.00
Recreational fee (not refundable) \$1 00 each term	2.00
Total for fifteen weeks	\$ 43.00
Tuition for a normal load (four to six semester hours per six-week term) is \$16.00 for a six-week term and \$22.00 (four to nine semester hours) for	

the nine-week term; the minimum charge for either term is \$10.00 for three semester hours or less. For each additional semester hour enrolled for above six hours for the six-week term, or above nine hours for the nine-week term, the charge is \$2.00. Fees are collected after the student's class schedule is approved by his dean. No refund is made for courses dropped. The breakage deposit of \$3.00 is refundable upon withdrawal of the student, less any charges for loss of library books, for fines, breakage in the laboratories, or other legitimate charges against such a deposit. Fees outlined above include laboratory fees.

Some General Regulations

In the general catalogue 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 catalogue with reference to grades, course numbers, grade point requirements for graduation, withdrawal from College, suspension from College, etc. It is not deemed necessary to list these regulations in the Summer Session Bulletin, but the student is urgently requested to secure a copy of the current Long Session Catalogue, in which the regulations are given in full.

STUDENTS ON PROBATION

A student suspended at the end of the first or the second semester of the year, either for failure to remove scholastic probation or for failing to pass a minimum of five semester hours, is ineligible to register in the College until the lapse of a full semester; however, if such a student attends both terms of the subsequent Summer Session, which he is eligible to do upon agreement with his academic dean, and if he passes in at least nine semester hours with a minimum of nine grade points he will have satisfied probation requirements and may enroll in the College the following September without formal petition.

STUDENT LOAD

The normal load for any student for a six-week term is six semester hours; for the nine-week term, nine semester hours. A student may not register for more than six semester hours in the first term (of six weeks), unless he has maintained during the preceding Long Session an average of at least B on a normal schedule of work. In no case will a student be permitted to register for, or secure credit in, more than fourteen semester hours in the two terms of six weeks each (Plan I), including any correspondence work, nor more than seventeen hours under Plan II. The one-hour required physical education courses or the one-hour credit in orientation may be taken in addition to the maximum load allowed. For the fifteen week session (Plan II), the student may secure credit for approximately a full semester of work. Students who have not done work previously in Texas Technological College will regularly enroll for a maximum of six semester hours in a six-week term, or nine semester hours in the nine-week term, exclusive of one-hour physical education courses and one-hour credit in orientation. Graduate students are limited to six hours in either term of six weeks, under Plan I, or twelve hours total, and fifteen hours under Plan II. A college senior of superior ability and performance may, with the approval of his dean, enroll for fifteen semester hours in the twelve-week session if this arrangement will enable him to be graduated at the close of the current Summer Session.

AUDITING CLASSES

A general provision has been made in the College whereby students may audit classes during the Long Session by paying a certain fee. However, this does not obtain in the Summer Session and permission will not be granted to audit classes during the Summer School. Persons eligible to enroll for classes may have the privilege of enrolling regularly upon the payment of the regular Summer School fee.

DIVISION OF AGRICULTURE

In the summer of 1944 every effort will be made to fit the offerings in the Division of Agriculture to the war program. Timely courses needed in the war program will be included along with regular technical and professional subjects. The more advanced work will particularly serve teachers of vocational agriculture who may be able to attend college for six weeks this year.

Many boys too young to enter the armed forces should avail themselves of the opportunity to enter immediately into their college agricultural work and to this end beginning courses will be offered. Likewise, those who took up the accelerated program last summer will be given the opportunity to go forward with this program. Advanced courses will also be available. All courses are open to both men and women who can meet the entrance requirements.

There is an urgent need for both men and women with technical training and education in many of the fields of agriculture. To accomplish the goals set in food production, the livestock industry and the farming industry we find that it is impossible to proceed with the increased production without education, and these goals depend on a more efficient management of our present farms and ranches. Not only are operators and managers needed, but also vocational agriculture teachers, county and home demonstration agents, farm security workers, and others are needed who have knowledge to direct and stimulate the planting of victory gardens, the growth and care of fruits, the production of food and feed and livestock products.

The courses offered during the 1944 Summer School are designed to give the student a good fundamental background in agricultural science. These courses will include subjects in animal husbandry, poultry husbandry, milk products, field crops, soils, horticulture, vegetable gardening, agricultural economics and agricultural education. Several of the subjects offered may be used for graduate credit.

The course, Agricultural Education 442, will be offered as sufficient applications are already on hand to guarantee a class. This is the first time the course has been given in the summer. It is open to those with teaching experience or those who have had teacher training in Agricultural Education 441. For other special offerings in the Division of Agriculture, see page 28 of this bulletin.

DIVISION OF ENGINEERING

GENERAL OFFERINGS

The great demand for graduate engineers by various branches of the armed services and by war industries makes it highly desirable that engineering students take advantage of summer offerings, which will enable them to graduate at an earlier date.

A statement concerning recent rulings by the Selective Service System as it effects Engineering students will be found on page 14 of this bulletin.

SUGGESTIONS FOR ENGINEERING TRANSFER

Transfer students often find it advisable to register here in the summer preceding the first Long Session so that prerequisite courses or any irregularities may be cleared up. Students having only two hours of Engineering Drawing may wish to take Engineering Drawing 111 (S), a one-hour course, which will enable them to receive credit in the three-hour

course. It is suggested that transfer students having special problems write to the Dean of Engineering, Texas Technological College.

Special Offerings in Engineering for the 1944 Summer School.

Due to the exigencies of the war, several departments are planning to offer certain upper level courses in order to advance the probable date of graduation for sophomore and junior students.

The Department of Civil Engineering, in order to expedite the work of sophomores or delayed juniors, is offering C. E. 320 and C. E. 330, Structures, in the first and second terms, respectively. If the student has C. E. 333, Strength of Materials, and the two courses in Structures just mentioned, this will enable him to proceed with all senior Civil Engineering courses. This will be particularly advantageous to junior civil engineers and to architects who are taking the Construction Option.

The Department of Electrical Engineering will offer Electrical Engineering courses taken by juniors majoring in this Department. These courses are offered for the particular benefit of sophomores and juniors who, thereby, may be able to graduate at an earlier date. For other courses offered, please, refer to the schedule of classes. In case of sufficient demand other required courses may be offered.

The Department of Industrial Engineering and Engineering Drawing expects to offer I. E. 332 during the second term (9 weeks). This offering will make it possible for any Junior Industrial Engineer to graduate at an earlier date. While I. E. 421-2 is not scheduled, this Department will be glad to offer this course if there are sufficient Senior Chemical Engineers who need the course in order to step up their date of graduation.

In Mechanical Engineering, prerequisite courses in both the sophomore and junior years are offered in order that sophomores and juniors may graduate at an earlier date. Additional courses, necessitated by the accelerated program which was set up for the purpose of graduating students in three years, will be offered. These courses are scheduled under "Outline of Courses" in this bulletin.

The Departments of Architecture and Allied Arts, Chemistry and Chemical Engineering, and Geology and Petroleum Engineering expect to offer approximately the same work as has been given in previous summers.

DIVISION OF HOME ECONOMICS

The Division of Home Economics offers a schedule of work for freshmen, sophomore, junior, and senior students during the 1944 Summer Session. Graduate work will be offered in Foods and Nutrition, Child Development, Clothing and Textiles, and Home Economics Education Departments.

URGENT NEED FOR DIRECTORS IN DEFENSE NURSERY SCHOOLS

There is urgent need for trained workers in the Defense Nursery Schools of the state. Home Economics and Primary Education majors can prepare themselves for this important work by supplementing their undergraduate training with an advanced course in Nursery School Techniques, which will be offered the second term of the Summer Session. This course is Child Development 432-3 and carries six semester hours of graduate credit. The course deals with aspects of nursery school administration and organization; the nursery school child; teaching techniques; habit formation; mental hygiene; play equipment; music; planning and equipping the nursery school; the staff; cost of operation; methods, techniques, and subject matter used in working with parents of nursery school children. The College Nursery School will be used as a laboratory and students will be given as much responsibility in the operation as they have time to assume. Opportunity will also be given to work with the parents of the nursery school children.

THE NEED FOR HOME ECONOMICS TEACHERS IS GREAT

The problem of Home Economics teacher shortages is becoming acute. Home Economics graduates who do not hold the Vocational Certificate of Approval and persons who have been out of professional work for a number of years may secure a Temporary Certificate of Approval by taking work in the Summer Session.

Student Teaching in Home Economics will be offered for the first time this Summer in order to help prepare students to meet the requirements of the Temporary Certificate of Approval. Applications for student teaching must be made in advance. Special subject matter courses will be offered also.

CLOTHING PROBLEMS

Home Economics Education 432, will feature a sewing machine clinic; methods of making sewing principles and techniques more attractive to the high school girl; ways of organizing groups to save time; ways of solving present textile shortages; ways of interesting girls in renovation. Illustrative material will be prepared to send to the units now being taught in Texas High Schools. Students desiring graduate credit will work on special problems in conference with the instructor.

FOOD PRESERVATION

The course in Food Preservation will be of greater interest than ever before. This year the course will be taught during the second term and will carry three semester hours of graduate credit.

ELEMENTARY NUTRITION FOOD SELECTION AND PREPARATION FOR NON-HOME ECONOMICS MAJORS

To meet the needs of primary education majors interested in nursery school work and for other non-Home Economics majors also, the course in Elementary Nutrition will be taught the second term of Summer School. Laboratory work will be especially planned to meet the needs of those enrolling for the course.

CRAFTS FOR VOCATIONAL MAJORS, ART MAJORS AND EDUCATION MAJORS

Crafts Design 232 will be offered as a three week's course. May 29, to June 17. Work in bookbinding, leather, wood, and other materials will be included. A student having credit in Applied Arts 232 may take up 132 or the advanced problems required in one of the Applied Arts Courses number 334 or 335 and upon satisfactory completion be granted 3 semester hours credit for the course completed. In so far as possible problems will be planned with the student to meet individual needs.

HOME AND FAMILY LIFE CONFERENCE

A three-day conference on the problems of home and family life will be held during the second term of the Summer Session, beginning July 10th. Speakers and discussion group leaders will include Dr. Robert Sutherland, Director of the Hogg Foundation; Dr. Bernice Moore, Consulting Sociologist of the Hogg Foundation; Miss Ruth Huey, State Director of Homemaking education. The conference will be open to classes in psychology, education, rural sociology, home economics education and child development, marriage, and to persons interested. Local agencies who have been invited to cooperate in the conference include the Parent-Teacher Association, Federated Women's Clubs, Ministerial Association, Lubbock Youth Council, and Rotary and Kiwanis Clubs.

DIVISION OF ARTS AND SCIENCES

BIOLOGY

The Department of Biology will offer the fundamental courses in Bacteriology, Biology, and Zoology. Courses designed especially for pre-medical, pre-dental, pre-pharmacy, and pre-nurse's training will also be emphasized in the offerings.

CHEMISTRY

Chemistry, too, is shaping its offerings toward definite ends. At the present time there is an ever increasing demand for chemists to fill positions in war industries as well as in the usual peace time industries. Both men and women are greatly desired. Students who have had some training in chemistry may qualify for such positions by taking some advanced work. Such possibilities should be particularly attractive to women. Those who are interested in chemistry can well do their part in the war effort by qualifying themselves for these positions which are absolutely essential to the winning of the war.

Another objective of the Department of Chemistry is to provide for the demands of the pre-medical students. Required courses in the pre-medical curriculum will be offered this summer, and pre-medical students are urged to take full advantage of this opportunity.

EDUCATION AND PSYCHOLOGY

The offerings of the Department of Education and Psychology for this summer have been designed first of all to meet the need for teachers in the public schools. For this purpose, majors in primary, elementary, and secondary education will be available, as well as courses leading to the different types of teachers' certificates.

Another objective is to provide refresher opportunities for former teachers who are returning to the profession in this time of emergency. A third objective has reference to providing opportunity for studying the educational readjustments occasioned by the war emergency. For this purpose modifications have been made in some of the regular courses.

Still another objective is to contribute to the in-service education of teachers insofar as facilities permit. It is with this purpose in mind that the field consultant will be on the campus to offer courses the first term of Summer School. A conference on elementary school problems is again being planned to be held near the close of the first term, special announcement to be made later.

A special feature of the Summer School will again be the workshop in curriculum and instruction (Ed. 4316-17) to be given the first term. This course is open to experienced teachers on both the elementary and secondary levels who seek guidance in working out instructional and administrative problems actually encountered in their schools. Opportunity will also be given to work on educational problems of Pan-American relations and to become familiar with the "minimum program of education" sponsored by the State Department of Education. Because the number that can be accommodated is limited, and because arrangements must be made beforehand, teachers are asked to pre-register for this course. For this purpose they should write for a blank, addressing Dr. R. E. Garlin, Head of the Department of Education and Psychology, Texas Technological College, Lubbock, Texas.

The Master of Education degree is now available with a thesis option. This degree is predicated upon the B. S. degree in Education. As a rule, the student will complete nine hours of course work in lieu of the thesis, or a total of thirty-six hours for the degree.

TEACHER PLACEMENT BUREAU AND SERVICES

A teacher placement bureau is operated for the benefit of teachers and prospective teachers, primarily Arts and Sciences graduates, who desire to secure teaching positions. All students or graduates from all divisions of the College may avail themselves of these services, for which a minimum fee is charged. Due to the shortage of teachers, all candidates for teaching positions should register with the bureau as early as possible.

Prospective employers and teachers should address inquiries to Dr. Doyle D. Jackson, Department of Education, who is in general charge of the bureau.

Because of requirements governing the certification and employment of vocational home economics or vocational agriculture teachers, special placement services are available as follows:

Teachers Placement in Home Economics

Seniors, graduate students, and alumnae are requested to fill out information blanks and file them in the office of the dean. From these blanks credentials are made up and are sent to prospective employers on their request. No charge, except for postage on the credentials sent out, is made for this service.

Prospective employers should address inquiries to Dean Margaret W. Weeks, Texas Technological College, Lubbock, Texas.

Teacher Placement in Agriculture

The Department of Agricultural Education at all times offers its services to superintendents, teachers, and prospective teachers for proper placement of vocational agriculture teachers. Credentials are made up in uniform form for sending to prospective employers. Charges are made for postage.

ENGLISH

The Department of English has been offering courses for Aviation Students in the College Training Detachment and for reservists in the Army Specialized Training Unit, as well as for civilian students.

In the summer of 1944, the usual freshman courses will be available in the first six weeks term and the nine weeks term; sophomore and advanced courses will be offered in each of the six weeks terms.

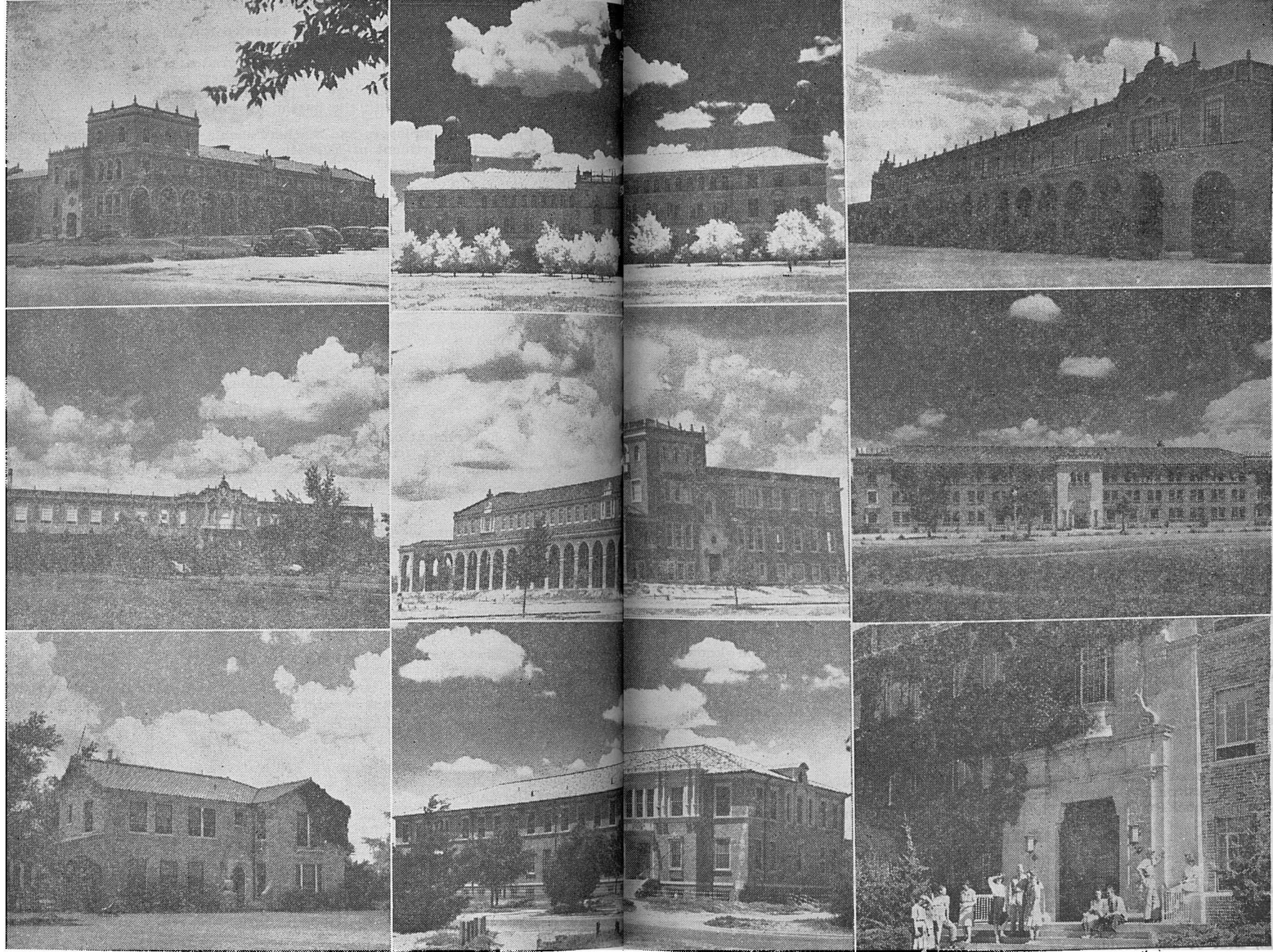
FOREIGN LANGUAGE

Many branches of service are today demanding trained students of languages. There is, first of all, the teaching of Spanish in the high schools, and then there are government positions in the F.B.I., Signal Corps, Intelligence Division, and Women's Army Corps.

For students specializing in the various fields of science the Department of Foreign Languages is offering second-year courses in both French and German.

For students majoring in Spanish and who wish to prepare themselves to teach Spanish, an intensive course in advanced grammar and composition is offered as a rehearsal of the fundamentals, and a course in Latin-American Literature in which the prospective teacher will be given a key to the understanding of our neighbors.

For students majoring in languages who wish to prepare for civil service and other permanent government positions, both during and after the war, there will be available two courses of particular interest and value as follows: An intensive course in advanced grammar and composition in the form of business correspondence, usage and terminology, and a course



SOME OF THE PRINCIPAL EDUCATIONAL BUILDINGS AT TEXAS TECHNOLOGICAL COLLEGE—Left to right: Top Row—Chemistry, Administration, Engineering; Second Row—Textile Engineering, Library, Men's Dormitory No. 2; Bottom Row—Management House, Agriculture, Women's Dormitory No. 1.

in Latin-American Literature in which the prospective government employee will be given the cultural and psychological background necessary for a better understanding of our Latin neighbors.

GEOLOGY

The war has aroused new interest in the science of geology because of the fact that by the time the war has closed, millions of persons will have traveled to far places of the world. The present situation has also aroused a universal interest in the study of geography.

Geology 131-2, six semester hours, will be given during the fifteen weeks of the summer school, and Geography 131-2, six semester hours, will be given during the twelve weeks. Field geology, Geology 363, will be given at the permanent field camp in New Mexico during the first six weeks. Women as well as men are now admitted to the field course.

The department now has permanent field houses in the Sierra Blanca Mountain region of New Mexico, where the field course is given. These houses, consisting of barracks, mess hall, kitchen, and office, are situated in a delightful locality, 7,340 feet above the sea level.

Persons interested in the field course should communicate with the head of the department at the earliest practicable date, as the number of persons to be accommodated is limited.

HISTORY

The war has brought a new emphasis on history. Investigations have revealed that less than ten per cent of the men in our armed forces have any adequate concept of American history. They are asked to preserve a political and social heritage which they do not understand. Less than seven per cent know what contributions were made to our body politic by Jefferson and Jackson. Now that they are called upon to defend the democratic way of life, it is cloudy to ninety per cent of them as to what they are defending it against.

The Army has become alarmed in regard to the situation and is requiring that its officers know the background of the issues for which we are fighting. Courses in history have been put into the curricula of all the Army's specialized training programs, including the air service, engineering, communications. The Navy urges that its reservists take courses in Naval history and the traditions of the American Navy.

When the war is over, reconstruction should be based upon knowledge of the mistakes of the past. The permanency of the peace will depend largely upon the extent these mistakes are recognized.

This summer the courses offered in the Department of History and Anthropology are designed to meet these purposes.

JOURNALISM

Six semester hours in Press Photography will be offered in the Department of Journalism during the first six weeks, and a three-hour course in High School Publications. These are regular junior and senior courses.

MATHEMATICS

Mathematics is pre-eminent in importance to the emergency. The technical phases of the war are absolutely dependent for their success upon men trained in mathematics, as are many emergency activities carried on far behind the lines in industry and in other defense areas.

To meet this demand for mathematics, the Department of Mathematics will, first of all, provide a variety of basic courses, namely, algebra, trigonometry, analytics, calculus, and others. Special mention is made of three new courses arising from the war emergency. These are spherical trigonome-

try, practical air navigation, and the algebra required of students in the army and navy reserve forces. Because of the renewed emphasis on mathematics in high schools, a third type of offering, namely, a course in methods of teaching algebra and geometry, will find a place in the schedule for the summer.

MUSIC

Sight singing, Ear-training, Solfeggio, Harmony, Public School Music Education, String and Wind classes offered by the Department of Music is covered in the uniform tuition charged to all students of the college. Extra fees are charged where special instructors are employed; such as private lessons in voice, violin, piano, etc. These fees range from \$12 to \$18 per Summer semester of six weeks.

Particular mention is made of Music 431-2, covering the minor instruments in strings, reeds, and brasses. This course is included in the regular College tuition, and should not be confused with private, applied music lessons mentioned above. See band and music schedule.

Practice studios with pianos are available on the campus and situated near the women's dormitories. Terms per semester are: \$4.00 for one hour a day; \$2.00 for each additional hour. In order to obtain applied music credit under special instructors, all voice and instrumental students are obligated to attend a seminar class held once a week. The student is not obligated to perform in this class, but he is obligated to attend.

SUMMER SCHOOL BAND

During the first six weeks of the Summer Session, there will be offered again an intensive course for band teachers and those wishing to further their musical education. During this session much emphasis will be placed on courses that will better qualify the women band teachers who are now directing so many of the school bands in Texas. A distinguished corps of teachers of the various instruments of the band will be available for class instruction, and a great amount of band material of all grades will be studied and played. Two bands will be available to accommodate students at almost any stage of advancement. College credit, usually six semester hours, is given to students of college classification. Theory classes will also be available without extra charge, and for college credit.

For special folder on the Band School, communications should be addressed to D. O. Wiley, Director.

PHYSICAL EDUCATION

Physical fitness is necessary to the well-being of the individual, both of his own benefit and for the good of the nation. By means of the required program in physical and health education for men and women, the College endeavors to contribute to the student's personal health and social well-being, and, at the same time, contribute to the general welfare of the country.

In order to meet the needs of teachers attending College this summer four methods courses will be offered: Methods in Physical Education for the Elementary School Teacher, Principles of Health Education, Safety and First Aid, and Recreational Methods.

PHYSICS

The offerings in physics will be designed to meet the immediate needs of students. Those who are following an 'accelerated program' and wish to complete courses in physics required in their curriculum will find adequate courses. Those who expect to enter some specialized branch in the Armed Forces will be pleased to know that courses needed for helpful preparation for a large number of places in the Armed Forces will be offered. Persons who expect to teach physics in high schools will find offerings

suitable to their needs. Physics teachers are needed because so many persons trained in physics are now using their skills in the Armed Forces

SPEECH

"When men seek light in a crisis, when the issues of life are sharp, they resort to speech."

Never before has the ability to express straight thinking in clear speech been so necessary for the individual. Courses offered in speech this summer are designed to meet this need. Two courses will be offered each six weeks term, one of which in each term will be in the public speaking and discussion field.

DIVISION OF COMMERCE

American business in war time and in peace time increasingly demands well-trained personnel. Young people are finding that prospective employers are asking "What can you do?" They also imply, "and do well?" Commerce students are given the opportunity and are urged to train well in certain business skills which demand accuracy, speed, and good judgement. Every individual business has its own peculiar methods, but a trained person quickly learns and fits into the different methods.

Business people are generally agreed that with peace will come the increased need of trained people to aid in the new world-wide phase of business. With speeded-up transportation methods, made possible by the adaption of aviation to business, the commercial world will be greatly contracted and will demand young people trained in the world-wide or international concept.

Students in Commerce find the need of related courses in other divisions of the college. Provision is made for such electives through a plan of logical progression from freshmen to senior courses. An elective program in other divisions necessitates recognition of prerequisite courses early in the student's program. With increasing proportions of students being women, the Division of Commerce recognizes that students want to train to earn or produce a living and to equip themselves to live better. It is hoped that these women students will become homemakers; hence they are encouraged to take courses in Home Economics, becoming familiar with the contribution science has made to feeding the family, rearing of children, and beautifying the home. Electives may be taken also in Agriculture, Engineering, Arts and Sciences.

Summer courses in the Division of Commerce are arranged to fit into the goal of a degree. Teachers will find refresher courses in subjects they will teach in high schools.

ACCOUNTING AND FINANCE

Accurate records and their correct analysis and interpretation are essential to the success of all business organizations. Higher costs in war time, together with ceiling prices and government regulation, increase the need for training in accounting. Problems of inflation and purchasing power adjustment have increased the need for training in finance. Summer school courses lead to the solution of these problems.

The department offers four year curricula in Accounting and in Banking and Credit Administration.

ECONOMICS AND MANAGEMENT

The department serves the entire college in courses in principles of economics. The needs of engineers, students of home economics, and arts and sciences are taken into account as well as the needs of students in com-

merce. The department offers four year curricula with majors in Management, Hotel Management, Economics, Government service, Transportation, and Public Utilities.

MARKETING AND SALESMANSHIP

That every person is a salesman, whether he likes it or not, has become rather axiomatic in most circles. Scientific salesmanship is the crying need of business firms. The program of training in this important field involves the study of principles of marketing, and of our economic order, together with practice in actually selling wherever such is possible.

Major students in Marketing and Salesmanship are taken, in one course, to study business firms in Lubbock. Business men give freely of their time and the College and students appreciate this fine cooperation.

GENERAL BUSINESS

The curriculum in General Business is intended for students who have not definitely decided upon a specific major study and for those who wish more electives in other departments of the College. Commercial teaching, as a major subject, falls in this department.

SECRETARIAL STUDIES

War industries and government agencies are rapidly increasing their demand for good secretaries and for operators of office machines. Skills are acquired by long and diligent practice. Courses have been arranged for this purpose and should be taken in outlined sequence.

As a result of the war, men, trained as secretaries, are in special demand.

DIVISION OF MILITARY SCIENCE AND TACTICS

OFFERING IN MILITARY SCIENCE

During the 1944 Summer Session the Division of Military Science and Tactics will continue offering R.O.T.C. summer courses with the view of giving eligible students military knowledge and training which will aid our war effort and prepare them to take more responsible positions if they should be called into active military service.

These proposed Summer R.O.T.C. courses are as follows:

For incoming freshmen a complete semester's work of fifteen weeks. This work will cover the course that would normally be given in the 1945 spring semester, and students who take this course can continue the course by taking the fall semester's work beginning next September with the freshmen enrolling at that time.

A complete semester's work for men who have completed the freshman course, to be distributed over a fifteen-weeks period.

The courses outlined above are planned on the assumption that the enrollment in each case will be large enough to justify the effort involved and are subject to modifications at the will of the War Department, if the war makes it necessary.

DIVISION OF GRADUATE STUDIES

The demands for leadership in the present emergency as well as in the postwar era with its complex problems suggest that a good proportion of college graduates turn their attention to the matter of pursuing graduate study. The critical shortage of teachers also suggests that graduates of

former years return to college and prepare for teaching. Work will be offered leading to the various graduate degrees.

The requirements for the degree of Master of Education have been changed to the extent that the thesis is not necessarily required. Upon recommendation of the major department, the thesis may be replaced by nine additional hours of properly approved course work.

DIVISION OF EXTENSION

CORRESPONDENCE AND CLASS COURSES

Two hundred and seventy college courses and forty high school courses are offered by correspondence through the Extension Division of the College, for those who are in service or otherwise prevented from attending an institution of learning. This work may count on degrees and teachers' certificates. List of courses will be sent on request.

Extension class work is available for those who cannot attend the regular scheduled classes of the resident divisions of the College. Both credit and non-credit courses are given by correspondence and class work.

PLANE GEOMETRY AND SECOND-YEAR ALGEBRA

For the benefit of students who have graduated from high school without second-year algebra or plane geometry, the College offers either or both of these subjects by extension classes during the first six weeks of the Summer School, where the demand justifies them.

CORRESPONDENCE WORK FOR MEN IN ARMED SERVICES

Through the cooperation of the college with the U. S. Armed Forces Institute, correspondence courses, both college and high school, are available for the enlisted men of the Army and for personnel of the Navy, the Coast Guard, and the Marines, at reduced rates. Also, officers are granted special rates for correspondence work.

VISUAL AIDS: MOTION PICTURES

The Film Library of the College is equipped with approximately three hundred fifty educational motion pictures for the use of colleges, public schools, county agents, clubs, churches, and other organizations for very reasonable rentals. A classified descriptive catalogue of these films will be sent on request. Address: Film Librarian, Texas Technological College, Lubbock, Texas.

THE GOVERNMENT WAR FILM PROGRAM

The Film Library is cooperating with the State Department of Education and the Governor's office as a depository and distributor of the U. S. Government war films, including the Latin-American films and many others that show pictorially and by sound the ways and means of waging the war.

FURTHER INFORMATION

For more detailed information regarding the Summer Session, as well as for any other information pertaining to the College and its program of work, those interested are invited to address the

REGISTRAR

TEXAS TECHNOLOGICAL COLLEGE

LUBBOCK, TEXAS

OUTLINE OF COURSES

The courses offered during the summer session are listed by Divisions, with the following information in consecutive order: course number, description, semester hours credit, term offered, and instructor. The detailed schedule giving also the hour, days and room will be ready to use at the time of registration, May 30.

The student is referred to the current General Catalogue, in which will be found a full description of courses and a complete statement of prerequisites.

DIVISION OF AGRICULTURE

AGRICULTURAL ECONOMICS, FARM MANAGEMENT, AND RURAL SOCIOLOGY

First Term

Agricultural Economics

331. Statistical Problems, 3 sem. hrs. 6 lec. hrs., 9 lab. hrs. Mr. Harirson

Second Term, Six Weeks

Rural Sociology

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

Second Term, Nine Weeks

Agricultural Economics

235. Fundamentals of Economics. 3 sem hrs. Mr. McBride

AGRICULTURAL EDUCATION

First Term

321. Organization and Administration of Vocational Education in Agriculture. 2 sem. hrs. Mr. Leach

442. Agricultural Education. 4 sem. hrs. 9 lec. hrs. 9 lab. hrs. Mr. Chappelle

ANIMAL HUSBANDRY

First Term

Animal Husbandry

121. Types and Market Classes 1. 2 sem. hrs. 3 lec. hrs., 9 lab. hrs. Mr. Stangel

322. Farm Meats. 2 sem. hrs. 18 lab. hrs. Mr. Harbaugh

331. Animal Nutrition and Principles of Feeding. 3 sem. hrs. 6 lec. hrs., 9 lab. hrs. Mr. Mowery

Second Term, Nine Weeks

Animal Husbandry

231. Breeds of Livestock. 3 sem. hrs. Mr Stangel

Poultry Husbandry

131. Farm Poultry. 3 sem. hrs. 4 lec. hrs., 6 lab. hrs. Mr. Strickland

DAIRY MANUFACTURES

Second Term, Nine Weeks

222. The Dairy Industries. 2 sem. hrs.

Mr. Renner

PLANT INDUSTRY

First Term

Agronomy

131. Fundamentals of Crop Production. 3 sem. hrs. 6 lec. hrs. 9 lab. hrs.

Mr. Young

Second Term, Nine Weeks

221. Soils. 2 sem. hrs.

Mr. Young

First Term

Horticulture

231. Vegetable Gardening. 3 sem. hrs. 6 lec. hrs. 9 lab. hrs.

Mr. Yocum

322. Landscape Appreciation. 2 sem. hrs.

Mr. Yocum

Other Subjects

War time conditions necessitate a severe reduction in the offerings. If sufficient students request additions, courses as follows may be offered:

A. H. 122. Types and Market Classes, II.

P. H. 421. Poultry and Turkey Production.

Agron. 421. Cotton and Other Fiber Crops.

DIVISION OF ENGINEERING**ARCHITECTURE AND ALLIED ARTS**

First Term

- 121 or 122. Freehand Drawing. 2 sem. hrs. 18 lab. hrs. each.

Mr. Williams

- 123 or 124. Elements of Composition. 2 sem. hrs. 18 lab. hrs. each.

Mr. Williams

- 239-2310. Pottery. 3 sem. hrs. 3 lec. hrs., 18 lab. hrs. each.

Mr. Williams

- 328 or 329. Poster Design and Lettering for Public School Teachers. 2 sem. hrs. 18 lab. hrs. each.

Mr. Williams

- 337 or 338. Public School Art. 3 sem. hrs. 3 lec. hrs. 18 lab. hrs. each.

Mr. Williams

- 426 or 427. Oil Painting or Advanced Water Color. 2 sem. hrs. 18 lab. hrs. each.

Mr. Williams

- 439 or 4310. Methods of Teaching Art Integrated for the Elementary School and High School. 3 sem. hrs. 3 lec. hrs., 18 lab. hrs. each.

Mr. Williams

- 4311-4312. Ceramics. 3 sem. hrs. 3 lec. hrs. 18 lab. hrs. each.

Mr. Williams

Second Term, Nine Weeks

- 121 or 122. Freehand Drawing. 2 sem. hrs. 12 lab. hrs. each.

Mr. Kleinschmidt

- 123 or 124. Elements of Composition. 2 sem. hrs. 12 lab. hrs. each.

Mr. Kleinschmidt

- 141 or 142. Elements of Architecture 4 sem. hrs. 2 lec. hrs. 18 lab. hrs. each.
Mr. Kleinschmidt
2216. Pencil Rendering and Sketching. 2 sem. hrs. 12 lab. hrs.
Mr. Kleinschmidt
2217. Pen and Ink Rendering. 2 sem. hrs. 12 lab. hrs. Mr. Kleinschmidt.
- 426 or 427. Oil Painting or Advanced Water Color. 2 sem. hrs. 12 lab. hrs.
each. Mr. Kleinschmidt

CIVIL ENGINEERING

First Term

231. Plane Surveying. 3 sem. hrs. 6 lec. hrs.; 9 lab. hrs. Mr. Normand
320. Structures. 2 sem. hrs. 3 lec. hrs.; 9 lab. hrs. Mr. McRee
331. Applied Mechanics—Statics. 3 sem. hrs. Mr. Normand
332. Applied Mechanics—Kinematics and Kinetics. 3 sem. hrs. Mr. Murdough
439. Law and Ethics in Engineering. 3 sem. hrs. Mr. McRee

Second Term, Six Weeks

330. Structures. 3 sem. hrs. Mr. Murdough
333. Applied Mechanics—Strength of Materials. 3 sem. hrs. Mr. Decker
420. Hydraulics. 2 sem. hrs. Mr. Decker

ENGINEERING ORIENTATION

First Term

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

ELECTRICAL ENGINEERING

First Term

322. Alternating Current Circuits Laboratory. 2 sem. hrs. 18 lab. hrs. Pre-requisite: Registration in E. E. 332. Mr. Helwig
332. Alternating Current Circuits. 3 sem. hrs. Prerequisite: E. E. 230. Mr. Helwig
438. Elements of Electrical Engineering. 3 sem. hrs. Mr. Helwig

Second Term, Six Weeks

412. Electrical Engineering Laboratory. 1 sem. hr. 9 lab. hrs. Mr. Gray
413. Electrical Engineering Laboratory. 1 sem. hr. 9 lab. hrs. Mr. Gray
439. Elements of Electrical Engineering. 3 sem. hrs. Mr. Gray

Second Term, Nine Weeks

230. Principles of Electrical Engineering. 3 sem. hrs. Mr. Bullen or Mr. Gray
323. Electronics Laboratory. 2 sem. hrs. 12 lab. hrs. Prerequisite: Registration in E. E. 333. Mr. Bullen
333. Electronics. 3 sem. hrs. Prerequisite: E. E. 332. Mr. Bullen

INDUSTRIAL ENGINEERING & ENGINEERING DRAWING

First Term

Engineering Drawing

111. Engineering Drawing. 1 sem. hr. 9 lab. hrs. Prerequisite: Two sem. hrs. credit in Engineering Dwg. 132. Mrs. Atkinson

132. **Engineering Drawing.** 3 sem. hrs. 3 lec. hrs., 18 lab. hrs. (not for entering freshmen) Mrs. Atkinson
133. **Engineering Drawing.** 3 sem. hrs. 3 lec. hrs., 18 lab. hrs. Mrs. Atkinson
221. **Machine Drawing.** 2 sem. hrs. 18 lab. hrs. Mrs. Atkinson

Second Term, Six Weeks

133. **Engineering Drawing.** 3 sem. hrs. 3 lec. hrs., 18 lab. hrs. Mr. Perryman
221. **Machine Drawing.** 2 sem. hrs. 18 lab. hrs. Mr. Perryman
222. **Descriptive Geometry.** 2 sem. hrs. 3 lec. hrs., 9 lab. hrs. Mr. Perryman
223. **Agricultural Drawing.** 2 sem. hrs. 18 lab. hrs. Mr. Perryman

Second Term, Nine Weeks

132. **Engineering Drawing.** 3 sem. hrs. 2 lec. hrs., 12 lab. hrs. Mr. St. Clair.

Industrial Engineering

332. **Management-Production Planning & Control.** 3 sem. hrs. 6 lec. hrs. Mr. St. Clair

MECHANICAL ENGINEERING

First Term

221. **Engineering problems.** 2 sem. hrs. 3 lec. hrs., 6 lab. hrs. Mr. Mason
317. **Heat Engineering Laboratory.** 1 sem. hr. 9 lab. hrs. Prerequisite: Registration in M. E. 334. Mr. Mason
330. **Thermodynamics.** 3 sem. hrs. Mr. Newell
334. **Elementary Thermodynamics.** 3 sem. hrs. Mr. Mason
337. **Metallurgy.** 3 sem. hrs. Mr. Newell

Second Term, Six Weeks

311. **Pattern Shop.** 1 sem. hr. 9 lab. hrs. Mr. Hardgrave
312. **Foundry Practice.** 1 sem. hr. 9 lec. hrs. Prerequisite: Registration in M. E. 311. Mr. Hardgrave
313. **Machine Shop.** 1 sem. hr. 9 lab. hrs. Mr. Hardgrave
314. **Machine Shop.** 1 sem. hr. 9 lab. hrs. Mr. Hardgrave
315. **Heat Treating of Steel.** 1 sem. hr. 9 lab. hrs. Mr. Hardgrave
316. **Welding Practice.** 1 sem. hr. 9 lab. hrs. Mr. Hardgrave
318. **Heat Engineering Laboratory.** 1 sem. hr. 9 lab. hrs. Prerequisite: Registration in M. E. 335. Mr. Williams
322. **Dynamics of Machinery.** 2 sem. hrs. Mr. Williams
331. **Thermodynamics.** 3 sem. hrs. Mr. Godeke
335. **Heat Engines.** 3 sem. hrs. Mr. Williams
434. **Industrial Engineering.** 3 sem. hrs. Mr. Godeke

DIVISION OF HOME ECONOMICS

APPLIED ARTS

First Term

- *132. Design. (3 wks., May 29-June 17) 3 sem. hrs. 6 lec. hrs. 36 lab. hrs.
Miss Hawley
231. Costume Design. 3 sem. hrs. 6 lec. hrs., 9 lab. hrs. Miss Poindexter
- *232. Crafts Design. (3 wks., May 29-June 17) 3 sem. hrs. 6 lec. hrs., 36 lab. hrs.
Mrs. Hawley
331. Interior Decoration. 3 sem. hrs. 3 lec. hrs., 18 lab. hrs. Miss Poindexter
- *334. Wood Carving. (3 wks., May 29-June 17) 3 sem. hrs. 6 lec. hrs., 36 lab. hrs.
Miss Hawley
- *335. Leather Work. (3 wks., May 29-June 17) 3 sem. hrs. 6 lec. hrs., 36 lab. hrs.
Miss Hawley

CLOTHING AND TEXTILES

First Term

132. Principles of Dressmaking. 3 sem. hrs. 3 lec. hrs., 18 lab. hrs. Miss Looney
332. Advanced Dressmaking. 3 sem. hrs. 3 lec. hrs., 18 lab. hrs. Miss Looney
333. Pattern Designing. 3 sem. hrs. 3 lec. hrs., 18 lab. hrs. Miss Looney

Second Term, Six Weeks

131. Elementary Textiles. 3 sem. hrs. 6 lec. hrs., 9 lab. hrs. Mrs. Kinchen
232. Dressmaking. 3 sem. hrs. 3 lec. hrs., 18 lab. hrs. Mrs. Kinchen
431. Textile Economics. 3 sem. hrs., 6 lec. hrs., 9 lab. hrs. Miss Erwin

HOME MANAGEMENT

First Term

332. Home Management. 3 sem. hrs. Miss Urban
422. House Care and Management. 2 sem. hrs. 2 lec. hrs., 6 lab. hrs. Miss Urban
432. Residence in Home Management House. 3 sem. hrs. Prerequisite: H. Mgt. 332, Parallel H. Mgt. 422. 12 sem. hrs. of food and nutrition, Child Dev. 431 or parallel. Registration must be made in advance. Miss Urban

CHILD DEVELOPMENT AND FAMILY RELATIONS

Second Term, Six Weeks

431. Child Development. 3 sem. hrs. 6 lec. hrs., 9 lab. hrs. Miss Borgman
432. Procedures in Nursery School Education. 3 sem. hrs. 6 lec. hrs., 9 lab. hrs. Miss Callan
433. Management Problems of the Nursery School. 3 sem. hrs. 6 lec. hrs., 9 lab. hrs. Prerequisite or parallel Child Dev. 432. Miss Callan

*Offered according to demand.

FOODS AND NUTRITION**First Term****Foods**

131. **Elementary Food Preparation and Serving.** 3 sem. hrs. 3 lec. hrs., 18 lab. hrs. Miss Twyford
332. **Food Purchasing.** 3 sem. hrs. 6 lec. hrs., 9 lab. hrs. Prerequisite or parallel Nutr. 334. Miss Twyford

Nutrition

334. **Dietetics.** 3 sem. hrs. 6 lec. hrs., 9 lab hrs. Mrs. Michie
433. **Nutrition Work with Children.** 3 sem. hrs. 6 lec. hrs., 9 lab. hrs. Mrs. Michie

Second Term, Six Weeks**Foods**

132. **Elementary Food Preparation and Serving.** 3 sem. hrs. 3 lec. hrs., 18 lab. hrs. Mrs. Bavousett
335. **Food Preservation.** 3 sem. hrs. 3 lec. hrs., 18 lab. hrs. Mrs. Bavousett

Nutrition

333. **Elementary Nutrition and Food Selection.** 3 sem. hrs. 6 lec. hrs., 9 lab. hrs. Miss Weeks
533. **Readings in Nutrition.** 3 sem. hrs. Mrs. Lamb

HOME ECONOMICS EDUCATION**First Term**

431. **Methods of Teaching Home Economics.** 3 sem. hrs. Miss Johnson
442. **Home Economics Teaching.** 3 sem. hrs. Prerequisite: Senior or graduate standing in Home Economics, 6 sem. hrs. in Ed. and Psy. An accelerated program in supervised observation and teaching in the local public high school during the summer months. Opportunity to work with the summer program and community activities; designed for those who wish to secure the Temporary Certificate of Approval to teach Vocational Home Economics in the high schools of Texas. Miss Johnson

Second Term, Six Weeks

331. **Methods in Vocational Home Economics.** 3 sem. hrs. Miss Borgman
432. **Problems in Teaching Clothing.** 3 sem. hrs. Miss Erwin
442. **Home Economics Teaching.** 3 sem. hrs. Miss Borgman

DIVISION OF ARTS AND SCIENCES**BIOLOGY****First Term****Biology**

131. **Natural History.** 3 sem. hrs. 6 lec. hrs., 9 lab. hrs. Mr. Landwer

Zoology

131. **General Zoology.** 3 sem. hrs. 6 lec. hrs., 9 lab. hrs. Mr. Landwer

231. **Comparative Vertebrate Anatomy.** 3 sem. hrs. 6 lec. hrs., 9 lab. hrs. Mr. Parker
235. **Anatomy, Physiology, and Hygiene.** 3 sem. hrs. 6 lec. hrs., 9 lab. hrs. Mr. Parker

Second Term, Six Weeks

Bacteriology

231. **Bacteriology.** 3 sem. hrs. 6 lec. hrs., 9 lab. hrs. Mr. Hefley

Biology

132. **Natural History.** 3 sem. hrs. 6 lec. hrs., 9 lab. hrs. Mr. Studhalter

Zoology

132. **General Zoology.** 3 sem. hrs. 6 lec. hrs., 9 lab. hrs. Mr. Studhalter
232. **Comparative Vertebrate Anatomy.** 3 sem. hrs. 6 lec. hrs., 9 lab. hrs. Miss League
236. **Anatomy, Physiology, and Hygiene.** 3 sem. hrs. 6 lec. hrs., 9 lab. hrs. Miss League

CHEMISTRY

First Term

- 131-1. **General Chemistry.** 3 sem. hrs. 7½ lec. hrs., 7½ lab. hrs. Mr. Slagle
- 131-2. **General Chemistry,** 3 sem. hrs. 7½ lec. hrs., 7½ lab. hrs. Mrs. Marshall
220. **Qualitative Analysis.** 2 sem. hrs. 3 lec. hrs., 9 lab. hrs. Mrs. Marshall
331. **Quantitative Analysis.** 3 sem. hrs. 6 lec. hrs., 20 lab. hrs. Mr. Oberg
341. **Organic Chemistry,** 4 sem. hrs. 9 lec. hrs., 9 lab. hrs. Mr. Slagle
343. **Organic Chemistry.** 4 sem. hrs. 9 lec. hrs., 9 lab. hrs. Mr. Dennis
- 411-12. **Chemistry Seminar.** 2 sem. hrs. 5 lec. hrs. Mr. Oberg

Second Term, Six Weeks

344. **Organic Chemistry.** 4 sem. hrs. 9 lec. hrs., 9 lab. hrs. Mr. Goodwin

Second Term, Nine Weeks

132. **General Chemistry,** 3 sem. hrs. 5 lec. hrs., 6 lab. hrs. Mr. Craig
332. **Quantitative Analysis.** 3 sem. hrs. 4 lec. hrs., 12 lab. hrs. Mr. Craig

EDUCATION AND PSYCHOLOGY

First Term

Education

131. **Introduction to Education.** 3 sem. hrs. Mr. Shaver
234. **Principles of Secondary Education.** 3 sem. hrs. Mr. Garlin
336. **Educational and Vocational Guidance.** 3 sem. hrs. Special attention to guidance in Secondary Schools. Miss Padley
3316. **Observation and Practice.** 3 sem. hrs. Mr. Shaver
3317. **Observation and Practice.** 3 sem. hrs. Miss True
424. **Supervision of Instruction.** 2 sem. hrs. Mr. Mecham

3316. **The American Novel.** 3 sem. hrs. Mr. Mills
 4317. **Modern European Drama.** 3-sem. hrs. Mr. Murphy
 5311. **Literary Criticism.** 3 sem. hrs. Mr. Cunningham
 5312. **Thesis Course.** 3 sem. hrs. Staff

Second Term, Six Weeks

132. **Freshman Composition.** 3 sem. hrs. Miss Gill
 231. **Survey of English and American Literature.** 3 sem. hrs. Mr. Gates
 232. **Survey of English and American Literature.** 3 sem. hrs. Mr. Smallwood
 3320. **American Drama.** 3 sem. hrs. Mr. Smallwood
 432. **Shakespeare.** 3 sem. hrs. Mr. Gates
 4310. **The Major Victorian Poets.** 3 sem. hrs. Miss Gill
 5313. **Thesis Course.** 3 sem. hrs. Staff

Second Term, Nine Weeks

131. **Freshman Composition.** 3 sem. hrs.
 Sec. 1 Miss Teague
 Sec. 2 Miss Teague
 Sec. 3 Mrs. Carter
 132. **Freshman Composition.** 3 sem. hrs.
 Sec. 1 Mrs. Carter
 Sec. 2 Mrs. Carter
 232. **Survey of English and American Literature.** 3 sem. hrs. Miss Teague

FOREIGN LANGUAGES

First Term

German

- 233-4. **Scientific German.** 6 sem. hrs. Prerequisite: German 131-2 or two years of High School German. Mr. Henninger

Spanish

131. **A Beginning Course in Spanish.** 3 sem. hrs. Mr. Strehli
 231. **Grammar, Reading, Composition, and Conversation.** 3 sem. hrs. Prerequisite: Spanish 131-2 or two years of High School Spanish. Mr. Strehli
 331. **Contemporary Literature.** 3 sem. hrs. Prerequisite: Spanish 231-2 or three or four units of high school Spanish. Mr. Qualia
 436. **Advanced Grammar and Composition.** 3 sem. hrs. Prerequisite: Spanish 331-2 or 333-4. Mr. Qualia
 5314. **Thesis.** 3 sem. hrs. Hours to be arranged. Mr. Qualia

Second Term, Six Weeks

Spanish

332. **Contemporary Literature.** 3 sem. hrs. A continuation of Spanish 331. Mrs. Gates
 4324. **Reading in Latin American Literature.** 3 sem. hrs. Prerequisite: Spanish 333-4 or the equivalent. Mrs. Gates

Second Term, Nine Weeks

132. **A Beginning Course in Spanish.** 3 sem. hrs. A continuation of Spanish 131. Mr. Hamilton
 232. **Grammar, Reading, Composition, and Conversation.** 3 sem. hrs. A continuation of Spanish 231. Mr. Hamilton

GEOLOGY AND PETROLEUM ENGINEERING**First Term**

131. General Geology. 3 sem. hrs. 6 lec. hrs., 9 lab. hrs. Mr. Patton
131. Geography. 3 sem. hrs. 6 lec. hrs., 9 lab. hrs. Mr. Patton
363. Field Geology. 6 sem. hrs. Prerequisite: Geol. 131-2. Given at Geology field camp in the Capitan Quadrangle, New Mexico. Requires registration and a deposit in advance. Mr. Sidwell

Second Term. Nine Weeks

132. General Geology. 3 sem. hrs. 4 lec. hrs., 6 lab. hrs. Mr. Patton
231. Mineralogy. 3 sem. hrs. 2 lec. hrs., 12 lab. hrs. Mr. Patton
132. Geography. 3 sem. hrs. 4 lec. hrs., 6 lab. hrs. Mr. Patton

GOVERNMENT**First Term**

131. American Government, National. 3 sem. hrs.
Sec. 1 Mr. Pender
Sec. 2 Mr. Castleberry
132. American Government, State. 3 sem. hrs. Mr. Riethmayer
336. American Diplomacy. 3 sem. hrs. Mr. Pender
337. Public Administration. 3 sem. hrs. Mr. Riethmayer
531. Readings and Research. 3 sem. hrs. Staff
533. Thesis. Staff

Second Term, Six Weeks

131. American Government, National. 3 sem. hrs. Mr. Pender
132. American Government, State. 3 sem. hrs. Mr. Riethmayer
232. Modern Governments. 3 sem. hrs. Mr. Riethmayer
- 315 & 325. Contemporary Problems. 3 sem. hrs. Mr. Pender

Second Term, Nine Weeks

131. American Government, National. 3 sem. hrs. Mr. Castleberry
132. American Government, State. 3 sem. hrs. Mr. Castleberry

HISTORY AND ANTHROPOLOGY**First Term**

131. History of Civilization. 3 sem. hrs. Mr. Eaves
231. Economic and Political History of the United States. 3 sem. hrs. Mr. McKay
439. History of Texas. 3 sem. hrs. Mr. Holden
535. Seminar in History. 3 sem. hrs. Mr. Holden

Second Term, Six Weeks

435. Anglo-American Diplomacy. 3 sem. hrs. Mr. Kinchen
536. Thesis Course. 3 sem. hrs. Mr. Holden

Second Term, Nine Weeks

132. History of Civilization. 3 sem. hrs. Mr. Eaves
232. Economic and Political History of the United States. 3 sem. hrs. Mr. Wallace

JOURNALISM**First Term**

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| 3312-13. Press Photography. 6 sem. hrs. | Mr. Horne |
| 432. High School Publications. 3 sem. hrs. | Mr. Horne |

MATHEMATICS**First Term**

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| 130. Algebra. 3 sem. hrs. Prerequisite: One unit of high school algebra and one unit of plane geometry. | Mr. Michie |
| 131. Trigonometry. 3 sem. hrs. Prerequisite: One unit of high school algebra and one unit of plane geometry. | Mr. Sparks |
| 132. Analytics. 3 sem. hrs. | Mr. Thompson |
| 137. Commercial Algebra. 3 sem. hrs. Prerequisite: One unit of high school algebra. | Mr. Thompson |
| 233. Calculus Applications. 3 sem. hrs. | Mr. Michie |
| 2310. Differential Calculus. 3 sem. hrs. | Mr. Thompson |
| 332. Methods of Teaching Algebra and Geometry. 3 sem. hrs. | Mr. Thompson |

Second Term, Six Weeks

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| 122. Algebra. 2 sem. hrs. 4 lec. hrs. | Mr. Heineman |
| 2311. Integral Calculus. 3 sem. hrs. | Mr. Heineman |

Second Term, Nine Weeks

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| 130. Algebra. 3 sem. hrs. Prerequisite: One unit of high school algebra and one unit of plane geometry. | Miss May |
| 131. Trigonometry. 3 sem. hrs. Prerequisite: One unit of high school algebra and one unit of plane geometry. | Miss May |
| 132. Analytics. 3 sem. hrs. | Miss May |

MUSIC**First Term**

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|---|-----------------------------------|
| 121. Solfeggio. 2 sem. hrs. | Mr. Blitz |
| 123. Harmony. 2 sem. hrs. | Mr. Blitz |
| 125-6. et. seq. Applied Music Demonstration Course. For credits and prerequisites, see general catalogue. | Mr. Blitz and Applied Music Staff |
| 211. Public School Music Education. 1 sem. hr. | Mr. Blitz |
| 431. Minor Instruments (Strings). 3 sem. hrs. | Mr. Blitz |

Second Term, Six Weeks

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| 125-6 et. seq. Applied Music Demonstration Course. For credits and prerequisites, see general catalogue. | Applied Music Staff |
| 212. Public School Music Education. 1 sem. hr. | Mr. Blitz |
| 335. Music History and Appreciation. 3 sem. hrs. | Mr. Blitz |
| 432. Minor Instruments (Strings). 3 sem. hrs. | Mr. Blitz |
| Or | |
| 337. Public School Music: According to demand. 3 sem. hrs. | Mr. Blitz |

MUSIC (BAND)**First Term**

125. Band. 2 sem. hrs.	Mr. Wiley
126. Band. 2 sem. hrs.	Mr. Wiley
225. Band. 2 sem. hrs.	Mr. Wiley
226. Band. 2 sem. hrs.	Mr. Wiley
325. Band. 2 sem. hrs.	Mr. Wiley
326. Band. 2 sem. hrs.	Mr. Wiley
426. Band. 2 sem. hrs.	Mr. Wiley
115. Band. 1 sem. hr.	Mr. Wiley and Assistants
116. Band. 1 sem. hr.	Mr. Wiley and Assistants
215. Band. 1 sem. hr.	Mr. Wiley and Assistants
216. Band. 1 sem. hr.	Mr. Wiley and Assistants
315. Band. 1 sem. hr.	Mr. Wiley and Assistants
321. Band. 2 sem. hrs.	Mr. Wiley
421. Band. 2 sem. hrs.	Mr. Wiley
422. Band. 2 sem. hrs.	Mr. Wiley
521. Band. 2 sem. hrs.	Mr. Wiley
522. Band. 2 sem. hrs.	Mr. Wiley
523. Band. 2 sem. hrs.	Mr. Wiley
524. Band. 2 sem. hrs.	Mr. Wiley

ORIENTATION**First Term**

111. Orientation. 1 sem. hr.	
Sec. 1	Miss True
Sec. 2	Miss True

PHILOSOPHY AND SOCIOLOGY**First Term****Sociology**

331. Social Pathology. 3 sem. hrs.	Mr. Bahm
333. Current Social Problems. 3 sem. hrs.	Mr. Bahm

Second Term, Six Weeks**Sociology**

332. Marriage. 3 sem. hrs.	Mr. Bahm
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PHYSICAL EDUCATION FOR MEN**First Term**

113. Physical Education. 1 sem. hr. 6 lab. hrs.	Mr. Jennings
213. Physical Education. 1 sem. hr. 6 lab. hrs.	Mr. Jennings

Second Term, Six Weeks

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| 114. Physical Education. 1 sem. hr. 6 lab. hrs. | Mr. Robison |
| 214. Physical Education. 1 sem. hr. 6 lab. hrs. | Mr. Jennings |

Second Term, Nine Weeks

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| 114. Physical Education. 1 sem. hr. 4 lab. hrs. | Mr. Robison |
| 214. Physical Education. 1 sem. hr. 4 lab. hrs. | Mr. Jennings |

PHYSICAL EDUCATION FOR WOMEN

First Term

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| 212. Tennis. 1 sem. hr. | Mrs. Langford |
| 2110. Archery and Ping-Pong. 1 sem. hr. | Mrs. Langford |
| 233. Methods in Physical Education for the Elementary School Teacher.
3 sem. hrs. | Mrs. Langford |

Second Term, Six Weeks

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| 230. Principles of Health Education. 3 sem. hrs. | Mrs. Harrison |
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Second Term, Nine Weeks

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| 111. Fundamentals in Gymnastics and Rhythms. 1 sem. hr. | Mrs. Manicapelli |
| 217. Folk Dancing. 1 sem. hr. | Mrs. Manicapelli |

PHYSICS

First Term

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| 131. Elements of College Physics. 3 sem. hrs. 6 lec. hrs., 9 lab. hrs. | Mr. Dolecek |
| 141. General Physics. 4 sem. hrs. 9 lec. hrs., 9 lab. hrs. | Mr. Dolecek |
| 215-a. Physical Measurement. 1 sem. hr. 9 lec. hrs. Prerequisite: Parallel enrollment with Phys. 235. | Mr. de Launay |
| 235. Engineering Physics. 3 sem. hrs. 9 lab. hrs. | Mr. de Launay |

Second Term, Nine Weeks

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| 132. Elements of College Physics. 3 sem. hrs. 4 lec. hrs., 6 lab. hrs. | Mr. Dolecek |
| 142. General Physics. 4 sem. hrs. 6 lec. hrs., 6 lab. hrs. | Mr. Dolecek |
| 216-a. Physical Measurements. 1 sem. hr. 6 lab. hrs. Prerequisite: Parallel enrollment with Phys. 236. | Mr. de Launay |
| 236. Engineering Physics. 3 sem. hrs. | Mr. de Launay |

SPEECH

First Term

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| 131. Fundamentals of Public Speaking. 3 sem. hrs. | Miss Pendleton |
| 435. Technique of Interpretation. 3 sem. hrs. | Miss Pendleton |

Second Term, Six Weeks

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| 233. Voice and Diction. 3 sem. hrs. | Miss Blattner |
| 231. Business Speech. 3 sem. hrs. Not open to students who have had speech 337. | Miss Blattner |
| 337. Project Speaking. 3 sem. hrs | Miss Blattner |

DIVISION OF COMMERCE

ACCOUNTING AND FINANCE

First Term

Accounting

244. Elementary Accounting. 4 sem. hrs. 9 lec. hrs., 9 lab. hrs. Mrs. Eaves

Finance

531. Current Financial Problems. 3 sem. hrs. Prerequisite: Graduate standing. To be selected

Second Term, Six Weeks

Accounting

436. Accounting Systems. 3 sem. hrs. Mr. Sipe

Finance

331. Corporation Finance. 3 sem. hrs. Mr. Arnolds-Patron

Second Term, Nine Weeks

Accounting

245. Elementary Accounting. 4 sem. hrs. 6 lec. hrs., 6 lab. hrs. Mr. Sipe

ECONOMICS AND MANAGEMENT

First Term

Economics

231. Principles of Economics. 3 sem. hrs. Mr. Arnolds-Patron

433. International Economic Relations. 3 sem. hrs. Mr. Wiesen

531. Advanced Economic Research. 3 sem. hrs. Prerequisite: Graduate standing. To be selected

Second Term, Six Weeks

Economics

- 532-3. Thesis in Economics. 3 to 6 hrs. Prerequisite: Graduate standing and acceptance to candidacy for an advanced degree. Mr. Ellsworth

Management

431. Office Management. 3 sem. hrs. Miss Robinson

Second Term, Nine Weeks

Economics

232. Principles of Economics. 3 sem. hrs. Mr. Arnolds-Patron

234. Economic Development of the United States. 3 sem. hrs. Mr. Arnolds-Patron

GENERAL BUSINESS AND SECRETARIAL STUDIES

First Term

Marketing and Salesmanship

332. Principles of Marketing. 3 sem. hrs. Mr. Wiesen

531. Research in Marketing. 3 sem. hrs. Prerequisite: Graduate standing. Mr. Ellsworth

General Business

111. **Orientation for Commerce Students.** 1 sem. hr. Required of all summer school freshmen in Commerce. Mrs. Welch
135. **Business Problems.** 3 sem. hrs. Mr. Sipe
346. **Business Statistics.** 4 sem. hrs. Three laboratory periods of three hours each week. Mr. Harrison
411. **Seminar in Economics and Business.** 1 sem. hr. Mr. Ellsworth
432. **Methods of Teaching Commercial Subjects in High School.** 3 sem. hrs. Mr. Sipe
439. **Problems in Commerce.** 3 sem. hrs. Mr. Ellsworth

Secretarial Studies

111. **Elementary Typewriting.** 1 sem. hr. 15 hrs. a week. Mrs. Simmons
121. **Elementary Typewriting.** 2 sem. hrs. 15 hrs. a week. Prerequisite: Sec. 111 or one year of typewriting. Mrs. Simmons
131. **Elementary Shorthand.** 3 sem. hrs. Mrs. Welch
235. **Intermediate Shorthand.** 3 sem. hrs. Mrs. Eaves

Second Term, Six Weeks**Marketing and Salesmanship**

- 532-3. **Thesis in Marketing.** 3 to 6 hrs. Prerequisite: Graduate standing and acceptance to candidacy for an advanced degree. Mr. Ellsworth

General Business

438. **Research in Economics and Business.** 3 sem. hrs. Mrs. Eaves

Secretarial Studies

321. **Office Appliances.** 2 sem. hrs. Mrs. Eaves
333. **Secretarial Correspondence.** 3 sem. hrs. Miss Robinson

Second Term, Nine Weeks**General Business**

- 136.—**Business Problems.** 3 sem. hrs. Prerequisite: Bus. 135. Mr. Sipe

Secretarial Studies

121. **Elementary Typewriting.** 2 sem. hrs. 10 hrs. a week. Prerequisite: Sec. 111 or one year of typewriting. Mrs. Terrell
122. **Advanced Typewriting.** 2 sem. hrs. 10 hours a week. Prerequisite: Sec. 121 or two years of typewriting. Mrs. Terrell
132. **Elementary Shorthand.** 3 sem. hrs. Mrs. Terrell
236. **Intermediate Shorthand.** 3 sem. hrs. Miss Robinson

DIVISION OF MILITARY SCIENCE AND TACTICS**First Term, Second Term, Nine Weeks**

- M. S. 112. **First Year Basic, (Branch Immaterial).** 1 sem. hr. (1 classroom hour and 2 drill hours per week for 15 weeks). Theoretical and practical.
- M. S. 212. **Second year Basic, (Branch Immaterial).** 1 sem. hr. (1 Classroom hour and 2 drill hours per week for 15 weeks). Theoretical and practical.