### BULLETIN

of the

## COLLEGE of MINES and METALLURGY

(A Branch of The University of Texas)

**EL PASO, TEXAS** 

Volume XXIV

May 1, 1940

Number 4004

# CATALOGUE NUMBER

for

1939-1940

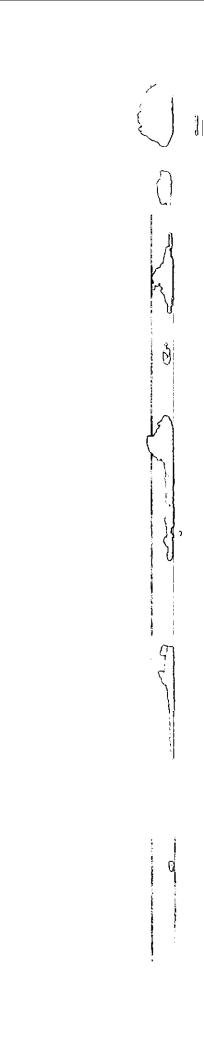
With Announcements for 1940-1941



Published Quarterly by the College of Mines and Metallurgy
A Member of the Southern Association of Colleges

Entered as second-class matter, March 7, 1935, at the post office at El Paso.

Texas, under the Act of August 24, 1912



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# College of Mines and Metallurgy

(A Branch of The University of Texas)

## **MEMBER**

of

Texas Association of Colleges
Southern Association of Colleges

El Paso, Texas

The benefits of education and of useful knowledge, generally diffused through a community, are essential to the preservation of a free government.

Sam Houston.

Cultivated mind is the guardian genius of Democracy, and while guided and controlled by virtue, the noblest attribute of man. It is the only dictator that freemen acknowledge, and the only security which freemen desire,

Mirabeau B. Lamar.

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#### **BOARD OF REGENTS**

#### OFFICERS

J. R. PARTEN, Chairman

LESLIE WAGGENER, Vice-Chairman

LEO C. HAYNES, Secretary

#### MEMBERS

#### Terms Expire January, 1941

GEORGE D. MORGAN ...... San Angelo J. R. PARTEN ..... Houston 

#### Terms Expire January, 1943

E. J. BLACKERT ..... Victoria LESLIE WAGGENER ..... Dallas H. H. WEINERT ..... Seguin

#### Terms Expire January, 1945

K. H. AYNESWORTH ..... Waco MRS. I. D. FAIRCHILD ..... Lufkin H. J. LUTCHER STARK ...... Orange

## STANDING COMMITTEES

ATHLETICS: Weinert, Stark, Parten. AUDITING: Stark, Morgan, Waggener.

BUILDING: Mrs. Fairchild. Blackert. Stark.

COLLEGE OF MINES: Morgan, Mrs. Fairchild, Weinert.

COMPLAINTS AND GRIEVANCES: Stark, Mrs. Fairchild, Waggener.

EXECUTIVE: Randall, Stark, Parten. FINANCE: Waggener, Blackert, Weinert.

LAND: Morgan, Weinert, Parten.

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LEGISLATIVE: Parten, Blackert, Weinert.

LIBRARY: Aynesworth, Stark, Waggener, MEDICAL: Randall, Aynesworth, Parten.

PUBLIC RELATIONS: Blackert, Aynesworth, Morgan.

BOARD FOR LEASE OF UNIVERSITY LANDS: Aynesworth, Mrs. Fairchild.

#### **CALENDAR**

 $\mathbf{of}$ 

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#### THE COLLEGE OF MINES AND METALLURGY

#### 1940

JUNE 17, MONDAY. Section 1 of Summer Surveying begins.

JULY 15, MONDAY. Section 2 of Summer Surveying begins.

SEPTEMBER 5, THURSDAY. Examinations for admission.

SEPTEMBER 9, MONDAY. Condition, advanced standing, and postponed Petitions must be in the office of the Registrar not examinations. later than September 5.

SEPTEMBER 10, TUESDAY. Freshman convocation at 9:00 a.m.

SEPTEMBER 10, TUESDAY, Faculty registration conference at 2:00 p. m.

SEPTEMBER 11-12, WEDNESDAY-THURSDAY. Registration.

SEPTEMBER 13, FRIDAY. Classes begin.

SEPTEMBER 19, THURSDAY. Deferred examinations.

SEPTEMBER 21, SATURDAY. Last day students may add or substitute courses.

SEPTEMBER 21, SATURDAY. Last day of registration for the first semester.

NOVEMBER 11, MONDAY. Armistice Day, holiday.

NOVEMBER 21-23, THURSDAY-SATURDAY. Thanksgiving recess.

DECEMBER 17, TUESDAY. Christmas recess begins at the close of the last class which meets on Tuesday.

#### 1941

JANUARY 2, THURSDAY. Classes are resumed.

JANUARY 20-27, MONDAY-MONDAY. Examination for the first semester.

JANUARY 22, WEDNESDAY. Examinations for admission.

JANUARY 23, THURSDAY. Freshman convocation at 9:00 a.m.

JANUARY 24-27, FRIDAY-MONDAY. Registration of new students.

JANUARY 28, TUESDAY. Advanced standing examinations.

JANUARY 29, WEDNESDAY. Registration of readmission students.

JANUARY 30, THURSDAY. Classes begin.

FEBRUARY 1, SATURDAY. Condition and postponed examinations. (Not for Engineering students.)

FEBRUARY 6. THURSDAY. Last day students may add or substitute courses.

FEBRUARY 6, THURSDAY. Last day for registration in the second semester.

APRIL 11-14, FRIDAY-MONDAY. Easter holidays.

MAY 3. SATURDAY, Major examinations.

MAY 23-30, FRIDAY-FRIDAY. Examinations for the second semester. MAY 23-30, FRIDAY-FRIDAY. Senior week.

MAY 31, SATURDAY. Alumni and class day.

JUNE 1, SUNDAY. Baccalaureate Services.

JUNE 2, MONDAY, Commencement,

### COLLEGE OF MINES AND METALLURGY

#### ADMINISTRATIVE OFFICERS

- DOSSIE MARION WIGGINS. Ph. D., President. B. A., Simmons, 1919; M. A., Yate, 1925; Ph. D., 1930.
- CHARLES ALEXANDER PUCKETT, M. A., Dean of Arts and Sciences.
- JOHN WILLIAM KIDD, E. E., Dean of Engineering; Superintendent of Buildings and Grounds.
- NORMA EGG, M. A., Dean of Women.

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- FRANK JUNELL, M. A., Registrar; Director of Publicity. B. A., Hardin-Simmons, 1934; M. A., Missouri, 1937.
- MARSHALL LEE PENNINGTON, B.B.A., Business Manager and Instructor. B. B. A., Texas, 1935.
- BAXTER POLK, B. S., Librarian. B. A., Hardin-Simmons. 1935; B. S. (Library Science), Oklahoma, 1936.
- BURT FRANKLIN JENNESS, M. D., Health Officer.
- MARY ELLA POOL, B. S., Director of Dormitories. B. S., Texas, 1930.
- MRS. LOUISE F. RESLEY, B. A., Social Director of Dormitory for Women.
- WILLIAM S. STRAIN, M. S., Curator of Museum.
- \*FORREST JACK AGEE, M. A., Director of Student Life.

#### **FACULTY**

#### PROFESSORS

- FREDERICK WILLIAM BACHMANN, Professor of Modern Languages, B. A., Stanford, 1922; M. A., 1924; Ph. D., Chicago, 1931,
- ANTON HELMER BERKMAN, Professor of Biological Sciences. B. A., Texas, 1924; M. A., 1926; Pb. D., Chicago, 1936.
- JOHN FRASER GRAHAM, Professor of Mining and Metallurgy. B. S., Michigan College of Mining and Technology, 1905; E. M., 1924.
- JOHN WILLIAM KIDD, Professor of Engineering.

  B. S., Oklahoma Agricultural and Mechanical College, 1904; E. E.,
  Texas Agricultural and Mechanical College, 1909.
- EDWIN JOHN KNAPP, Frofessor of Mathematics and Physics. Ph. B., Wisconsin, 1921; Ph. D., 1931.
- THOMAS ERL MORRIS, Professor of Economics and Business Administration.
   B. B.A., Texas, 1931; M. B. A., 1932.
- CHARLES ALEXANDER PUCKETT, Professor of Education. B. A., Texas, 1911; M. A., Harvaru, 1916,
- HOWARD EDMUND QUINN, Professor of Geology. E. M. (Geology), Minnesota, 1918; M. S., 1926; Ph. D., Harvard, 1932.

<sup>\*</sup> On leave, 1939-1940 session.

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- JOSEPH MOSES ROTH, Professor of Philosophy and Psychology. B. A., New York University, 1919; M. A., 1920; Ph. D., 1923.
- FRANKLIN HUPP SEAMON, Professor of Chemistry. M. E., Missouri School of Mines, 1891.
- CHARLES LELAND SONNICHSEN, Processor of English. B. A. Minnesota, 1924; M. A., Harvard, 1927; Ph. D., 1931.
- JOHN LEROY WALLER, Professor of History. B. S., Oklahoma, 1923; M. A. Colorado, 1925; Ph. D., Texas, 1929.

#### ASSOCIATE PROFESSORS

- \*FORREST JACK AGEE, Associate Professor of Education. B. A., Howard Payne, 1928; M. Ed., Texas, 1937.
- PEARL WHITFIELD DURKEE, Associate Professor of Physics. B. A., Acadia University, 1903; B. S. (Electrical Engineering), McGill University, 1906; M. S., Cornell, 1935.
- WILLIAM WALTER LAKE, Associate Professor of Chemistry. B. S., Ohio State, 1913; M. S., 1921.
- LLOYD ALVINO NELSON, Associate Professor of Geology. E. M., Texas College of Mines, 1916; M. S. (Geology), Colorado, 1929; Ph. D., 1937.
- \*\*ALVIN EDWARD NULL, Associate Professor of History. B. A., Indiana, 1910; M. A., Chicago, 1926.
- MACK SAXON, Associate Professor of Physical Training.
- EUGENE McRAE THOMAS, Associate Professor of Mining and Metallurgy. B. S. (Mining Engineering), Texas College of Mines, 1926; M. S., Massachusetts Institute of Technology, 1939.
- MRS. ISABELLA CORBETT ZIMMERMAN, Associate Professor of English. B. A., Occidental, 1925; M. A., 1926; Ph. D., University of Southern California, 1934.

#### ASSISTANT PROFESSORS

- WILLIAM ROBERT AVRETT, Assistant Professor of Modern Languages. B. A., Texas, 1927; M. A., 1928.
- FLOYD ARCHIE DECKER, Assistant Professor of Engineering. B. S., (Electrical Engineering), Kansas State College, 1927; E. E. 1932.
- NORMA EGG, Assistant Professor of English. B. A. Texas, 1913; M. A. 1928.
- MRS. LENA ELDRIDGE. Assistant Professor of Modern Languages. B. A., New Mexico Normal University, 1919; M. A., Washington, 1927.
- GLADYS GREGORY, Assistant Professor of Government. B. A., Southwestern, 1915; M. A., Texas, 1926; Ph. D., 1937.
- LUCY CLAIRE HOARD, Assistant Professor of Education. B. A., State College, San Diego, California, 1929; M. A., Columbia, 1934.

<sup>•</sup> On leave, 1939-1940 session.

<sup>\*\*</sup> Died January 5, 1940.

- BURT FRANKLIN JENNESS, Assistant Professor of Biological Sciences, M. D., Dartmouth, 1899; Lt. Comdr. M. C., U. S. Navy Rtd.
- GLEN R. JOHNSON, Assistant Professor of Music; Director of Band and Glee Clubs.
  B. A., Baylor University, 1936.
- LEON DENNY MOSES, Assistant Professor of English. B. A., Columbia 1923; M. A., 1924.
- RICHARD HUBBELL OLMSTED, Assistant Professor of Modern Languages. B. A., Minnesota, 1922: M. A., 1932; Ph. D., 1934.
- MRS. MARY KELLY QUINN, Assistant Professor of Sociology. B. A., Wellesley, 1922; M. A., Boston University, 1930.
- NATHAN SCHWID, Assistant Professor of Engineering and Mathematics. B. A., Wisconsin, 1930; M. A., 1932; Ph. D., 1934.
- MAC FRANCES SMITH, Assistant Professor of Economics and Business Administration.
  B. B. A., Texas, 1931; M. B. A., 1934.
- \*JOHN W. STORMONT, Assistant Professor of History. B. A., Austin College, 1928; M. A. Texas, 1936.
- REX WALLACE STRICKLAND, Assistant Professor of History. B. A., Austin College, 1927; M. A., Southern Methodist University, 1929; Ph. D., Texas, 1937.

#### INSTRUCTORS

- WILLIAM HENRY BALL, Instructor in Chemistry. B. S., Chicago, 1922; M. S., Iowa State College, 1925.
- MRS. MYRTLE EVELYN BALL. Instructor in Public Speaking. B. A., New Mexico Normal University, 1926.
- THOMAS GROGARD BARNES, Instructor in Mathematics. B. A., Hardin-Simmons, 1933; M. S., Brown, 1936.
- CHARLES EDWARD BOUNDS, Instructor in Journalism, B. A., Missouri, 1939; B. J., 1939.
- MRS. ISABELLE KELLY FINEAU, Instructor in Modern Languages. B. A., Texas, 1905; M. A., 1931.
- JOSEPH HOPKINS JAMES, JR., Instructor in English. B. A., Alabama, 1929; M. A., 1931.
- MRS. JULIA IDA KANE, Instructor in Physical Education. B. A., North Dakota, 1919; M. A., Arizona, 1930.
- VIRGINIA DEAN KING, Instructor (Part-time) in English.
  B. A., Wellesley, 1936; M. A., University of California at Los Angeles, 1937.
- JOSEPH S. LEECH. Instructor in Mathematics and Engineering. B. A., Oklahoma, 1927; M. A., 1928.
- BULAH A. LILES, Instructor in Mathematics. B. A., Texas. 1921; M. A., Chicago, 1927.
- MRS. ELIZABETH Y. NEALON, Instructor in English. B. A. Converse College, 1901.

<sup>\*</sup> Second semester 1939-1940 only.

HARRY B. PHILLIPS, Instructor in Physical Education. B. A., Texas College of Mines, 1933.

PEARL OLIVE PONSFORD, Instructor in English.

B. A. Wellesley, 1919; M. A., University of Southern California, 1930; Ph. D., 1935.

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MRS. LOUISE F. RESLEY, Instructor in Mathematics.

B. A., Texas College of Mines, 1939.

MRS. BERTHA REYNOLDS, Instructor in Education. B. A., Colorado, 1921; M. A., 1922.

JACKIE ROE, Instructor in Music.

B. A., Texas College of Arts and Industries, 1939.

GEORGE PERRY STEEN, Instructor in Engineering.

B. S. (Civil Engineering), Missouri School of Mines, 1933; M. S., 1938.

WILLIAM S. STRAIN, Instructor in Geology.

B. S., West Texas State Teachers College, 1932; M. S., Oklahoma, 1937.

VERA WISE, Instructor in Design and Interior Decorating.
B. A., Williamette University, 1920; Chicago Academy of Fine Arts; Kansas City Art Institute.

#### **ASSISTANTS**

NOEL ALTON, Assistant in the Department of Mathematics and Physics. JULIUS CARRERA, Laboratory Assistant in the Department of Chemistry.

RICHARD JENNESS, Laboratory Assistant in the Department of Economics and Business Administration,

FRANK W. MORGAN, Laboratory Assistant in the Department of Geology. B. A. Texas, 1939.

JOE SAM WILLIS, Laboratory Assistant in the Department of Biological Sciences.

B. A., Texas College of Mines, 1929.

#### ADMINISTRATIVE ASSISTANTS

MRS. MONICA G. ADAMS, Assistant (Part-time) in the Museum.

JOHNELL CRIMEN, Clerk in Office of the Business Manager, B. A., Texas College of Mines, 1938.

MARJORIE ERWIN, Assistant Librarian.

B. A., Texas College of Mines, 1934; B. S. (Library Science), Pratt Institute, 1935.

MRS. MAURINE SMITH JERRELL, Assistant Business Manager. B. A., Texas College of Mines, 1935.

FRANCES LUELLA JOB, Secretary, Office of Registrar. B. A. Texas College of Mines, 1935.

MRS. ISABEL AEDOU JOSEPH, Clerk in Office of Business Manager. B. A., Texas College of Mines, 1933.

MRS. ELIZABETH Y. NEALON, Assistant Librarian and Instructor. B. A., Converse, 1901.

MARGARET NEELY, Secretary to Faculty,

VAYNE PORTER, Assistant Registrar.

\*MAXINE E. ROPER, Clerk in office of the Registrar, B. A., Texas College of Mines, 1939.

MRS. FRANCES SMITH STEVENS, Secretary to the President.

\*\*BETTY JOE YOUNG, Switchboard Overator.

<sup>\*</sup>Resigned, February 1, 1940.

<sup>\*\*</sup>Appointed February 1, 1940.

### GENERAL INFORMATION

#### HISTORY

An announcement of a course in mining first appeared in The University of Texas catalogue in 1900-1901. From then until the session of 1910-1911, an arrangement of courses leading to the degree of Mining Engineer appeared annually. The catalogue of that year contained a statement that thereafter freshmen would not be enrolled in mining, and the arrangement of courses leading to a degree in that subject was subsequently omitted.

The Thirty-third Legislature, at its regular session in 1913, passed an act creating the State School of Mines and Metallurgy, to be located in El Paso. By the terms of the act, the School of Mines was placed under the control of the Board of Regents of The University of Texas. Early in 1919, by act of the Thirty-sixth Legislature, the school was made a branch of the University of Texas.

The location of the school at El Paso was conditioned upon the donation by the city of the former Military Institute buildings and grounds. The necessary funds for this donation were secured through the activity of the Chamber of Commerce, and the school was opened in September, 1914. On October 29, 1916, the Main Building burned. It was then decided to remove the institution to a more suitable site on the west side of Mount Franklin, donated for that purpose. The Thirty-fifth Legislature voted an emergency appropriation of \$100,000 to erect new buildings.

In 1927 the Legislature authorized further expansion along academic lines.

In 1931 the Board of Regents authorized the conferring of the Bachelor of Arts degree, vesting administrative powers in a President,

#### LOCATION

Texas is the largest and most populous state which supports a separate college of mining and metallurgy. The location of the College of Mines and Metallurgy is advantageous in several ways. The City of El Paso stands at the crossing of several of the oldest highways established by white men on this continent. With a population of 100,000, more than 30 per cent of which is engaged in technical industries, it is the most important city south of Denver, between San Antonio or Fort Worth and Los Angeles.

El Paso's primary resources include mining, agriculture, livestock, and timber. The United States Government has spent \$10,000,000 on a great irrigation project to provide a cheap and unfailing water supply for the Rio Grande Valley above and below El Paso.

Its extreme dryness and medium latitude, combined with a moderately high altitude (3800 feet), give El Paso a delightful and healthful climate all the year round.

Within a radius of from one to ten miles of El Paso are found in great variety those geological formations and structures that are usually associated with the mineral industry, not only in metal mining, but in coal mining, oil fields, and non-metallic deposits as well. In opportunity for geological study, no mining school in the United States is more favorably located.

El Paso is the industrial center of a large area, and is especially suitable for the location of a college instructing in mining, metallurgy, engineering, the sciences, and technology. The second largest custom smelter

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in the world is situated about a mile from the College of Mines and Metallurgy. It uses the most modern methods of smelting and treating ores containing copper, lead, gold, silver, and other metals. Within a few miles is also the most modern electrolytic copper refinery, which has a capacity of 20,000,000 pounds of copper in process. There are also nearby a large cement plant, two large brick plants, and three oil refineries. Various manufactories of lime, tile, and other non-metallics are located in the immediate neighborhood of the College. There are other varied industries, such as cotton spinning and weaving mills, cotton oil mills, wood-working mills, etc. There are also large power plants and sub-stations, foundries, machine shops, and other service enterprises of technical nature. Thus it will be seen that the environment is highly favorable for first-class instruction in engineering and technology, all of the industries cooperating fully with the College to this end.

#### BUILDINGS AND GROUNDS

The campus consists of forty-eight acres. There are thirteen buildings, as follows: Library and Administration Building, Main Building, Holliday Hall (the gymnasium), Burges Hall, Chemistry Buiding, Kelly Hall, Seamon Hall, Engineering Building, Museum Building, a dormitory for women, a dormitory for men, a mill, and a small dressing-room for women, donated by the Woman's Association of the College of Mines. The Main Building contains various lecture rooms, and laboratories for the departments of physics and geology. The Chemistry Building houses the laboratories for chemistry and assaying. In the Engineering Building are located the engineering laboratories and the heating plant. Burges Hall houses the biological laboratories, offices, and lecture rooms. Kelly Hall is used for lecture rooms and offices. The mill contains machinery for the testing of ores. Seamon Hall houses metallurgy equipment and laboratories. All the buildings except the mill are of stone and are fireproof. The City of El Paso is holding a reservation of approximately fifteen acres for the future use of the College.

#### THE LIBRARY

The book collection of 22,500 volumes is housed in the beautiful new library building, situated between the two main building groups on the campus. The nucleus of the book collection was the library of the late W. H. Seamon, a mining engineer and member of the faculty. His legacy has been augmented by gift and by purchase from year to year. Noteworthy among these gifts is the library of the late Dr. Hugh W. Crouse—a collection of books and periodicals pertaining to every phase of medicine and surgery. The geology, mining, language, economics and medicine sections of the library are especially strong. The library is a depository for a select group of government publications and contains an invaluable collection of United States Geological Survey and Bureau of Mines bulletins, some volumes of which are no longer obtainable.

The library regularly receives 260 periodicals—literary, scientific, and technical. Files of these are being accumulated, bound, and preserved, forming a valuable reference collection. There is also a very up-to-date pamphlet collection of miscellaneous subjects to which the students are given full access.

Students are given full use of the excellent facilities of the El Paso Public Library, a collection of 111,459 books, pamphlets, and documents. The Public Library contains an especially strong collection of literature pertaining to the Southwest. The Teachers' Library of El Paso Public Schools may also be used. It is located in the Administrative building of the El Paso Public Schools.

#### MUSEUM

The El Paso Centennial Museum, allocated by the Commission of Control for the Texas Centennial Celebrations, was erected by the State under the supervision of the State Board of Control at a cost of \$50,000. This thoroughly modern and spaclous museum building was located on the campus of the College of Mines through the authority of the El Paso County Advisory Committee. It is beautifully situated and graces the entire college campus. The College is truly proud of it and will devote every effort toward the development of a great museum for the entire Southwest. The public is welcome to visit the Museum and students will find an excellent opportunity for studying the various phases in the evolution of the civilization of this part of the country.

The mineralogical collection is especially fine. It includes the Reckhart collection and the Ledwidge collection, a gift of the Women's Auxiliary of the College, in addition to many other beautiful and rare specimens of minerals and ores that have been supplied to the College by purchase and by gift from mining men and geologists of the Southwest.

The paleontological collections are excellent. The invertebrate paleontological material comprises a splendid study group, containing specimens from most of the important geological horizons of the United States and particularly of Texas. There is also a fine group of specimens from European horizons.

Through the cooperation and assistance of the Works Progress Administration a large quantity of dinosaur bones, comprising a mountable skeleton, have recently been secured for the Museum. Additional vertebrate paleontological material consists of a collection of Pleistocene mammals principally Elephas remains.

Valuable additions have been made to the historical collection recently, through the loan of the El Paso Pioneer's Association and the El Paso Volunteer Firemen's Association collections. Both collections are a source of much valuable information pertaining to the early history of El Paso and the Southwest.

The biological collection, composed of both zoological and botanical specimens, occupies space both in the El Paso Centennial Museum and on the third floor of Burges Hall. The zoological collection includes preserved specimens and skeleton material representing the classes and orders of the vertebrates, arranged for study of comparative anatomy, and preserved material representing the phyla and classes of marine and land invertebrates. Dried specimens of the local flora, ferns from the various regions of North America, and preserved fungi of the local region make up the botanical collection.

The archeological collections have been greatly augmented through the gifts of the Women's Auxiliary of the College, and the permanent loan of the El Paso Archeological Society Collection. These collections in-

#### 14 COLLEGE OF MINES AND METALLURGY

clude some of the finest archeological specimens to be found in Texas, especially those of Chihuahus, Chupadero and El Paso Polychrome pottery. The Museum has recently acquired some excellent El Paso Polychrome Pottery and is constantly adding to the archeological collections by field work.

The Museum is being developed as an auxiliary instructional device, particularly in the science fields. The collections are therefore arranged with special preference to educational use.

#### DORMITORIES

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Two modern residence halls one for women and one for men, made possible through the Public Works Administration, are operated for the convenience of boarding students. The hall for men accommodates sixty students and the hall for women provides ample facilities for forty students. The dining room for both men and women is located on the first floor of the residence hall for women. The student rooms are attractively furnished. Each room has ample closet space and full-length mirrors are provided in each room of the hall for women. Separate study tables with large size study lamps are provided for each student. The buildings are fireproof, steam heated, and are located at a most convenient place on the campus. They are under the supervision of a manager well trained in dormitory housing and management.

#### GENERAL POLICIES OF THE COLLEGE

#### GENERAL STATEMENT

The College offers the degree of Bachelor of Science in Mining Engineering and the degree of Bachelor of Arts with liberal choices of major subjects in both instances. Students are encouraged to determine as early as is possible their choice in purscing the work leading to each of these degrees.

The College seeks to provide liberal education for its engineering students. In scientific and technical subjects the student's knowledge is reinforced by such practice and application as to prepare him for entrance into the industries, especially those related to the natural resources of Texas. Various of the many industries of the region cooperate with the College to promote the technical and general knowledge of the students. The Faculty is experienced and expert.

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A study of the requirements leading to the degree of Bachelor of Arts which are shown in tabular form will indicate the high standard of work as outlined. Students may be certain of obtaining a fundamental, dependable, and general education applicable to further progress in professions, teaching, and general activities of life.

Both the academic and technical courses offered in the Engineering School are sufficient to enable students wishing to graduate in other lines of engineering to complete in this College at least two years of work leading to degrees in the various scientific, engineering and technical branches, as offered by other institutions.

The College of Mines and Metallurgy gives undergraduate instruction to resident students only. No extension classes are provided off the campus, nor are correspondence courses given. However, an attempt is made through general correspondence to aid worthy citizens of the State, who are engaged in mining or prospecting, by giving them suitable advice on application.

Without entailing graduate study at the College, the degree of Engineering of Mines is granted, subject to regulations made by the Faculty and approved by the Regents, to those graduates of the College prior to 1931, who have demonstrated proficiency in responsible positions and who have made a written contribution of some importance regarding some phase of their work.

As an agency for furthering the best development of the State, the principal duty and major interest of the College lie in advancing and perfecting knowledge of mining and metallurgy as applied to the natural resources of the State by means of research and cooperation with existing agencles and industries. Future efforts and developments will probably be largely concerned with salts and minerals of potash, soda, flourine, and mercury, as well as with those of gold, silver, copper, lead, and zinc.

The College also acts as an examination center for other agencies and institutions, such as the College Entrance Examination Board, the American College of Life Underwriters, etc.

#### SPECIAL LECTURES

During the long session, prominent lecturers, educators and specialists address the student body and Faculty. These lectures, held at special convocations, extra class meetings, seminars, or gatherings of the several student organizations, are free.

The student has also ample opportunity of participating in and enjoying the civic, cultural, and artistic efforts of the local community.

#### DETERMINATIONS AND TESTS

General Principles.-The College of Mines and Metallurgy is charged with teaching and research in mining, metallurgy, and allied subjects in order to further the safe and economical development and exploition of the natural resources of the State. In order to advance this object the College is glad to receive gifts of materials for determinations or tests, whether or not they originate within the State. Such work will be done free of charge, but it should be borne in mind that the College will not compete with regularly established consultants, but will rather direct, supplement, and advance their work along new or more advanced lines. Persons shipping materials to the College must prepay all freight charges, and, upon agreement, the charges which they have to incur with outside consultants, such as charges for assays, etc. All such materials shipped to the College must be regarded as gifts to it, and become its property upon receipt. The determinative and testing work will be done largely by advanced students under the personal direction of a sultable professor in charge, and will be carefully checked to insure that the results are as precise as the material and tests warrant. Beyond this the College can not assume responsibility. Since all work done by students becomes part of their regular schedules, the rapidity of determinative and testing work depends upon the number of advanced students and the condition of their schedules. The College is glad to assist in the solution of any problem allied to its objectives, and to incorporate them in its regular instructional and research work. Shipments should be made, and correspondence and inquiries addressed, to the President, College of Mines and Metallurgy, El Paso, Texas.

Rocks, Minerals, Fossils, Ores, Geological Specimens.—Rocks, minerals, fossils, ores, and other geological specimens will be received gladly for determination and incorporation in the Museum and working collections. Acknowledgement is always accorded to donors. Materials are generally studied first from a geological and mineralogical point of view before being referred to other departments as indicated below. Collectors and museums may find it advantageous to correspond with the College to arrange exchanges and sales of important material.

Analyses and Assays.—The College will not make analyses or assays in competition with professional consultants. Those who have special reasons for wishing work done should write to the President explaining the circumstances.

Metallurgical Tests.—Shippers of ores desiring tests for process of streatment should see to it that the material submitted is a representative or average sample of the part of the mineral deposit concerned; otherwise, the results of the testing will be commercially worthless.

#### **EXPENSES**

#### FEES AND DEPOSITS

Registration and laboratory fees are payable on a semester basis at the beginning of each semester. Students are not permitted to enter-class or laboratory until their fees and deposits have been paid.

Tuition.—Resident Students: Each resident student is required to pay stuition at the following rate for each semester:

| 12 | or more  | semeste | er. | h | o١ | ır, | 8 |    |      |  |    | <br> |  |  |  |      |    |      | \$<br>25 | .0  | 0  |
|----|----------|---------|-----|---|----|-----|---|----|------|--|----|------|--|--|--|------|----|------|----------|-----|----|
| 11 | semester | hours   |     |   |    |     |   |    | <br> |  |    |      |  |  |  |      |    |      | 22       | .9  | 12 |
| 10 | semester | hours   |     |   |    |     |   |    |      |  |    |      |  |  |  | <br> | ٠. | <br> | 20       | . 8 | 3  |
| 9  | semester | hours   |     |   |    |     |   | ٠. |      |  | ٠. |      |  |  |  |      |    |      | 18       | . 7 | 15 |
| 8  | semester | hours   |     |   |    |     |   |    |      |  |    |      |  |  |  |      |    |      | 16       | .6  | 7  |
| 7  | semester | hours   |     |   |    |     |   |    |      |  | ٠. |      |  |  |  |      |    |      | 14       |     | 58 |
| 6  | semester | hours   |     |   |    |     |   |    |      |  |    |      |  |  |  |      |    |      | 12       | Į,  | 50 |
| 5  | semester | hours   |     |   |    |     |   |    |      |  | ٠. |      |  |  |  |      |    |      | 10       | . 4 | 12 |
| 4  | semester | hours   |     |   |    |     |   |    |      |  |    |      |  |  |  |      |    |      | 8        | . 3 | 33 |
| 3  | eemester | hours   |     |   |    |     |   |    | <br> |  |    |      |  |  |  | <br> |    |      | 7        | F   | 50 |

Non-Resident Students: Each non-resident student who registers for rewelve or more semester hours of work per semester is required to pay tuition in the amount equivalent to the amount charged students from Texas by similar schools in the State of which the said non-resident student is a resident, said amount to be determined and fixed by the Board of Regents, but in no event will such amount be less than that charged to students resident in Texas.

Each non-resident student who registers for less than twelve semester hours of work per semester is required to pay a sum proportionately less than that prescribed for non-resident students taking twelve or more semester hours per semester, but in no event will such amount be less than \$7.50.

A non-resident student is defined to be a student of less than twenty-one years of age, living away from his family and whose family resides in another state, or whose family has resided in Texas for a period of time less than twelve months prior to the date of registration, or a student of twenty-one years of age or over who resides out of Texas or who has resided in Texas for a period of less than twelve months prior to the date of registration.

<sup>\*</sup>Sections of the non-resident fee law have been interpreted by the Attorney General of Texas to mean that: (1) a minor cannot acquire a domicile of choice during his minority; (2) the residence of a minor follows that of the father, or if the father is dead, that of the mother; (3) if both parents are dead the residence of the minor follows that of the grand-

Information concerning the tuition required of non-resident students can be secured from the Business Manager.

Refund of Registration and Tuition Fee.—Refund of the registration and tuition fee is made under the following conditions and no others:

Upon presentation to the Registrar of his receipt from the Business-Manager showing payment of the fee any student withdrawing officially (a) during the first week of class work of a semester will receive a refund of 70 per cent of the applicable portion of the fee; (b) during the second week, 60 per cent; (c) during the third week, 40 per cent; (d) during the fourth week, 20 per cent; (e) during the fifth week and thereafter, nothing.

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In no case shall the total refund exceed 70 per cent of the registration, and tuition fees paid.

An immediate refund will not be made to a student who withdraws within fifteen days after the payment of his fees, but, upon request, a check covering all refunds due will be mailed to the address left with the Business Manager.

A student who enters the second semester, not knowing his first semester grades, and is required to withdraw because of failure in the work of the first semester will have all of his registration and tuition fee for the second semester refunded.

No refund provided for above will be granted unless applied for within one year after official withdrawal.

• Sections of the non-resident fee law have been interpreted by the Attorney Generi of Texas to mean that: (1) a minor cannot acquire a domicile of choice during his minority; (2) the residence of a minor follows that of the father, or if the father is dead, that of the mother; (3) if both parents are dead the residence of the minor follows that of the grandparent provided the minor lives with the grandparent: (4) the minor whose parents and grandparents are dead would not be assigned the domicile of any other relative with whom he lived; (5) a self-supporting minor who comes to Texas after the death of his parents who are residents of another statae is a nonresident; (6) a person over twenty-one years of age must reside in Texas at least twelve months after attaining his majority in order to be classified as a resident student.

Laboratory Fecs.—For each course of three semesters hours or less which is accompanied by laboratory work, a fee of \$2.00 is charged, and for each such course of four hours or more, a laboratory tee of \$4.00 is charged.

General property deposit.—Every student must make a general property deposit of \$7.00. This deposit is subject to charges for property loss or damages or breakage or violation of rules in any College library or laboratory, failure to return keys furnished by the College, or for damage

parent, provided the minor lives with the grandparent; (4) the minor whose parents and grandparents are dead would not be assigned the domicile of any other relatives with whom he lived; (5) a self-supporting minor who comes to Texas after the death of his parents who are residents of another state is a non-resident; (6) a person over twenty-one years of age must reside in Texas at least twelve months after attaining his majority in order to be classified as a resident student.

## CHANGES

## **Class Schedule**



## Fall 1976

#### SUPPLEMENT TO THE PALL 1976 CLASS SCHEDULE

This supplement provides a complete listing of changes to the printed Class Schedule for the Fall Semester 1976. Listed herein are all CHANGES, DELETES and NEW Classes that have been made through Wednesday, August 18, 1976. The reason for each entry is listed on the right. The word CHANGE indicates that some information in a class entry that was listed in the printed schedule has been changed. The information that has been changed has been underlined. All other information on the line that has not been underlined is the same as that listed in the printed schedule. The word DELETE indicates that the course listed in the printed schedule is not being offered. The word NEW indicates a course that is being offered in the Fall Semester 1976 that is not listed in the printed schedule.

To facilitate record keeping and to assist students desiring a schedule of Evening classes, all sections of a class which begin at 1730 (5:30 in the evening) and later have been numbered as sections 90 and 91 through as meny of the 90 series as are needed to accommodate the total class section offerings. The only exception is the evening classes offered at Fort Bliss. These have been numbered as sections 80 and 81. All other sections of the courses being offered are numbered in sequence from 01 through the necessary final number. To further assist you, all of the Fort Bliss Classes are listed on page 38 and all evening classes taught on campus are listed on pages 49, 40 and 41 of the printed class schedule.

#### CHANCES IN BUILDING NOMENCLATURE

During the past summer, many changes have occurred on this campus. With the completion and occupancy of the Science and Engineering Complex, it became necessary to rename several of the Buildings. Department Offices have been moved not only into the new buildings but also into buildings that were vacated as a result of this increase in buildings. The Department and College offices are correctly listed on pages 8-9 of the Class Schedule. Several of the buildings have been renamed to more closely agree to the function they now serve.

Old Biology Building is now Psychology Building (PSY)
Old Engineering is now Geology Building (G)
Old Geology Building is now Geology Annex (GA)
IN THE NEW SCIENCE AND ENGIEERING COMPLEX ARE LOCATED

Classroom Building (CRB) Biology Building (BI) Engineering Building (E) Metallurgy Building (MET)

SPECIAL NOTICE: The time listed on page 4 of the printed schedule for the examination for classes that meet TWThF, TWTh, TTh, T, or Th at 0800 in the morning should read 7:00-1000 AM.

## SCHEDULE CHANGES

### COLLEGE OF BUSINESS ADMINISTRATION

| COLIF | EGE OF BUS           | SINESS ADMINISTRATION                   | •       |                        |                 |                |                  |
|-------|----------------------|---|---------|------------------------|-----------------|----------------|------------------|
| DEDAD | TWENT OF             | ECONOMICS AND FINANCE                   |         |                        |                 |                |                  |
| ECONO |                      | BCONORICS AND FINANCE                   |         |                        |                 |                |                  |
| 2584  |                      | PRIN OF ECONOMICS                       | гТ      | 1230-1400              | BRAND           | LA319          | CHANGE           |
| 2586  | 3204-90              | PRIN OF ECONOMICS                       | TT      | 1730-1900              | STAFF           | LA108          | CHANGE           |
| 2636  | 3512-90              | ECONOMIC ENVIRONMENT                    | MON     | 1730-2030              | LEE             | LA307          | NEW              |
| FINAN |                      |   |         |                        |                 |                |                  |
| 3548  | 3310-01              | BUSINESS FINANCE                        | TΤ      | 0800-0930              | STAFF           | CRB304         | CHANCE           |
| 3550  | 3310-02              | BUSINESS FINANCE                        | MWF     | 1000-1100              | STAFF           | LA108          | CHANGE           |
| 3552  | 3310-03              | BUSINESS FINANCE                        | MMT     | 0900-1000              | STAFF           | LA108          | CHANGE           |
| 3554  | 3310-04              | BUSINESS FINANCE                        | TΤ      | 1230-1400              | TOLLEN          | LA108          | CHANCE           |
| 3556  | 3310-90              | BUSINESS FINANCE                        | TT      | 1900-2030              | LEE             | LA307          | CHANGE           |
| 3558  | 3315-01              | INVESTMENTS                             | TT      | 0930-1100              | TOLLEN          | LA122          | CHANGE           |
| 3568  | 3320-03              | MONEY & BANKING                         | MWF     | 1200-1300              | SCHAUER         | LA319          | CHANGE           |
|       |                      | (Meets with Econ 3220-03)               |         |                        |                 | _              |                  |
| 3580  | 3511 <b>-9</b> 0     | FINANCIAL MANAGEMENT                    | WED     | 1730-2030              | LEE             | <u>1A318</u>   | CHANGE           |
|       |                      |   |         |                        |                 |                |                  |
|       | RTMENT OF            | BUSINESS                                |         |                        |                 |                |                  |
|       | IESS LAW             |   |         |                        | ******          |                |                  |
| 1712  | 3301-90              | BUSINESS LAW I                          | TT      | 2030-2200              | ZAVALETA        | LA319          | CHANGE           |
| 1716  | 3304-01              | BUSINESS LAW II                         | TT      | 0930-1100              | BRENNAND        | CRB203         | CHANGE           |
| 1718  | 3304-90              | BUSINESS LAW II                         | MM      | 1730-1900              | BRENNAND        | LA304          | CHANGE           |
| 1726  | 3400-01              | LEGAL ASPECTS OF MANAGEMENT             | TUE     | 1300-1600              | GERBER          | CRB205         | CHANCE           |
| 1730  | 3401-90<br>AL BUSINE | CPA LAW REVIEW                          | TUE     | <u>1730-2030</u>       | FRUITHANDLER    | CRB202         | CHANCE           |
| 3636  | 3203-01              | INTRO TO COMPUTERS                      | MWF     | 1200 1200              | OTATE           | 14310          | OULLST OF        |
| 3646  | 3203-01              | INTRO TO COMPUTERS                      | TT      | 1200-1300<br>1730-1900 | STAFF<br>HAWLEY | LA318<br>LA319 | CHANGE<br>CHANGE |
| 3654  | 3304-01              | INSURANCE PLANNING                      | MWF     | 0800-0900              | TAPPAN          | 1A305          | CHANGE           |
| 3670  | 3401-01              | COMPARATIVE READINGS                    | TBA     | 0000-0300              | STAFF           | נטנאגו         | NEW              |
| 3682  | 3550-80              | PROBLEMS IN BUSINESS EDUC               | THU     | 1715-2015              | DAWKINS         | 20128          | NEW              |
|       | 2320 00              | (TAUGHT AT FORT BLISS)                  | 11.0    | 1,13-2013              | Dimarkino       | 20120          | MIN              |
| MANAG | EMENT                | (====================================== |         |                        |                 |                |                  |
| 5214  | 3300-80              | INTRO TO MANAGEMENT                     | MBJ     | 1900-2030              | <b>CRAVES</b>   | 2C222          | CHANGE           |
|       |                      | (TAUCHT AT FORT BLISS)                  |         |                        |                 |                | <b>4</b> 1-111   |
| MARKE | TING                 |   |         |                        |                 |                |                  |
| 5374  | 3401-01              | MKT RESEARCH AND ANALYSIS               | TT      | 1100-1230              | PALMORE         | ED316          | CHANGE           |
| STATI | STICS                |   |         |                        |                 |                |                  |
| 7272  | 3201-02              | FUND OF STATISTICS                      | MWF     | 1300- <u>1400</u>      | MARTIN          | CRB001         | CHANGE           |
| 7278  | 3201-80              | FUND OF STATISTICS                      | MW      | 1715-1845              | GRAVES          | 2C226          | CHANGE           |
|       |                      | (TAUGHT AT FORT BLISS)                  |         |                        |                 |                |                  |
| 7280  | 3201-90              | FUND OF STATISTICS                      | MN      | 1900-2030              | GEOR GE         | CRB001         | CHANCE           |
| 7284  | 3301-01              | INTERMEDIATE STATISTICS                 | TT      | 0800-0930              | GEORGE          | CRB301         | DELETE           |
|       |                      |   |         |                        |                 |                |                  |
| COLLE | CE OF EDU            | CA TION                                 |         |                        |                 |                |                  |
| COLLE | GE OF EDU            | CATION                                  |         |                        |                 |                |                  |
| DEPAR | TMENT OF             | CURRICULUM AND INSTRUCTION              |         |                        |                 |                |                  |
| 2300  | 3311-02              | INTRO SEC CURRICULUM                    | TT      | 1300-1430              | BURNS           | ED305          | CHANGE           |
| 2312  | 3333-01              | EDUCATION & MEX-AMERICAN                | TT      | 0800-0930              | STAFF           | GH301          | DELETE           |
| 2318  | 1450-02              | EDUCATIONAL WORKSHOP                    | TBA     | 0000-0930              | D LAT.          | 3/1301         | USIZEID          |
|       | 1450-01              | ( BIL/BIC ED)                           |         |                        |                 |                |                  |
| 2320  | 1450-03              | EDUCATIONAL WORKSHOP                    | TBA     |                        |                 |                | DELETE           |
|       | 2150105              | ( BIL/BIC ED)                           |         |                        |                 |                | Directo          |
| 2358  | 3425-02              | READ LAB EXP SEC                        | TBA     |                        | SOLIS           |                | NEW              |
| 2380  | 3450-03              | EDUCATIONAL WORKSHOP                    | TUE     | 1630-1930              | HERNANDEZ       | ED301          | CHANGE           |
|       |                      | (BIL/BIC ED) (BETO)                     |         |                        |                 |                | OIZIII (III      |
|       |                      | (BIL CLASSROOM COMMUNICATION            | SKILLS) |                        |                 |                |                  |
| 2388  | 3455-01              |   | MW      | 1630-1800              | BOLEY           | HUD313         | CHANGE           |
|       |                      | (Meets with ENGL 3455-01)               |         |                        |                 |                | 0.202            |
| 2456  | 3546-01              | TEACHING READING-SPAN                   | WED     | 1630-1930              | STAFF           | ED308          | DELETE           |
| 2452  | 3540-80              | PHILOSOPHY OF EDUCATION                 | THU     | 1730-2000              | STAFF           | 2D172          | CHANGE           |
|       |                      | (TAUGHT AT FORT BLISS)                  |         |                        |                 | •              |                  |
| 2462  | 3550-02              | WORKSHOP IN EDUCATION                   | THU     | 1630-1930              | CASTILLO        | ED308          | CHANGE           |
|       |                      | (BIL/BIC ED) (BETO)                     |         |                        |                 |                |                  |
|       |                      | (FELLOWSHIP PRACTICUM)                  |         |                        |                 |                |                  |
| 2470  | 3551-02              | SEMINAR IN READING                      | WED     | 1630-1930              | STAFF           | ED308          | NEW              |
| 2472  | 3552-01              | ORAL LANG ASSESSMENT                    | T BA    |                        |                 |                | DELETE           |
|       |                      |   |         |                        |                 |                |                  |

| DEPARTMENT O | F GEOLOGICAL SCIENCES     |       |           |               |        |        |
|--------------|---------------------------|-------|-----------|---------------|--------|--------|
| 3806 3222-0  | 1 SURVEY OF GEOPHYSICS    | TT    | 0930-1100 | KELLER        | G216   | DELETE |
| 3850 3333-0  |                           | MVF   | 0800-0900 | WHITE         | G216   | DELETE |
| 3852 3334-0  | 1 GRAV & MAG PROSPECT     | TT    | 0930-1100 | KELLER        | G216   | NEW    |
| 3854 3333    | LAB A                     | TUE   | 1400-1700 | WHITE         | G109   | DELETE |
| 3856 3334    | LAB A                     | TUE   | 1400-1700 | KELLER        | G109   | NEW    |
| 3880 1456-9  | O VERT PALEONT LAB        | THU   | 1800-2100 | HARRIS        | B1206  | NEW    |
|              | (MEETS WITH BIOL 1456-90) |       |           |               |        |        |
| 3898 3455-9  | O VERT PALEONTOLOGY       | TUE   | 1800-2100 | LEMONE        | BI206  | NEW    |
|              | (MEETS WITH BIOL 3455-90) |       |           |               |        |        |
| 3928 3535-0  | 1 ADV MICROPALEONTOLOGY   | TT    | 1230-1400 | CORNELL       | G111   | DELETE |
| 3932 3535    | IAB A                     | FRI   | 1200-1500 | CORNELL       | C111   | DELETE |
| 3944 3556-0  | 1 PHYSICAL WELL LOGGING   | TT    | 1100-1230 | WHITE         | G216   | DELETE |
| 3958 3590-0  | 1 SEMINAR                 | ΤŤ    | 1100-1230 | KELLER        | G216   | NEW    |
|              |                           |       |           |               |        |        |
| DEPARTMENT O | F MATHEMATICS             |       |           |               |        |        |
| STUDY SKILLS |                           |       |           |               |        |        |
| 4668 3121-   | O2 QUANTITATIVE STUDY     | MAT   | 0900-1000 | STAFF         | CRB203 | DELETE |
| MATHEMATICS  |                           |       |           |               |        |        |
| 4644 3120-0  | 3 INTRO MATH FOR BUSINESS | MAF   | 0900-1000 | <u>HANSEN</u> | PS128  | CHANCE |
| 4646 3120-0  | 4 INTRO MATH FOR BUSINESS | MAF   | 1000-1100 | STAFF         | CRB104 | CHANGE |
| 4648 3120-0  | 5 INTRO MATH FOR BUSINESS | MWF - | 1100-1200 | STAFF         | PS129  | CHANCE |
|              |                           |       | •         |               |        |        |

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| DEPARTMENT OF EDUCATIONAL PSYCHOLOGY AND GU   | IDANCE<br>MWF   | 1000-1100   | CASTILLO  | ED315  | CHANGE   |
|---|---|---|---|--|--|
| 4062 3402-01 ED PSYC BILL CHILD   | MW  | 1630-1800   | STAFF   | ED315  | CHANGE   |
| 4066 3409-01 EDUCATION OF EXCEPTIONAL<br>4082 3421-01 PSYCH MENTAL RETARDED   | TT  | 1630-1800   | STAFF   | ED309  | CHANGE   |
| 4086 3422=90 CUR MAT METH TCH MENTAL  | WED   | 1800-2100   | STAFF   | ED315  | CHANGE   |
| 4090 3429-90 MENTALLY RETARD-SEM  | TUE   | 1800-2100   | STAFF   | ED315  | CHANGE   |
| 4127 3521-02 IND STUDY IN SPECIAL ED  | TT  | 1630-1800   | PLATA   | ED315  | NEW  |
| (CHARACTER OF EMOT DISTUR)  |   |   |   |  |  |
| 4128 3521-90 IND STUDY IN SPECIAL ED  | MW  | 1900-2030   | BAUM  | ED311  | NEW  |
| (METH MAT IN EDUC LANG/LRNG   | -   |   |   | _  |  |
| 4162 3540-01 EDUC PSYCHOLOGY SEM  | TBA   |   | DAVIS   |  | NEW  |
| 4163 3545-01 CHAR OF LANG/LRNG DIS CHILD  | ΤT  | 1630-1800   | BAUM  | ED311  | NEW  |
| ,   |   |   |   |  |  |
| DEPARTMENT OF HEALTH AND PHYSICAL EDUCATION   |   |   |   |  |  |
| HEALTH EDUCATION  |   |   |   |  |  |
| 4208 3303-01 PROBS IN HEALTH EDUCATION  | TT  | 0930-1100   | STAFF   | ED309  | DELETE   |
| 4220 3404-90 PUBLIC HEALTH ADM I  | THU   | 1900-2200   | HUTCHINSON  | ED317  | CHANGE   |
| 4222 3405-01 PUBLIC HEALTH ADM II   | THU   | 1900-2200   | HUTCHINSON  | ED317  | NEW  |
| PHYSICAL EDUCATION  |   |   |   |  |  |
| ACTIVITY COURSES  |   |   |   |  |  |
| 5894 1101-51 JUDO (INT)   | TT  | 1100-1230   | Staff   | MG98   | CHANCE   |
|   |   |   | •   |  |  |
|   |   |   |   |  |  |
| ANTIBOT OF ENGINEERA DIG  |   |   |   |  |  |
| COLLEGE OF ENGINEERING  |   |   |   |  |  |
| DEPARTMENT OF CIVIL ENGINEERING   |   |   |   |  |  |
|   | TT  | 1730-1900   | COLTHARP  | CRB201   | DELETE   |
| 1984 4507 LAB A   | TBA   | 1/30-1900   | COLTHARP  | E224   | DELETE   |
| 1904 4307 And h   | LIIA  |   | COLINAL   | 4224   |  |
| DEPARTMENT OF ELECTRICAL ENGINEERING  |   |   |   |  |  |
| 2744 2311-02 ELEC ENGR LAB II   | MON   | 1300-1400   | STAFF   | CRB102   | NEW  |
| 2854 3507-01 MOD CONTROL THEORY I   | TBA   | 1300-1400   | STAFF   | ORDIOL   | NEW  |
| 2866 3569-01 MOD MEAS TECH  | TBA   |   | STAFF   |  | NEW  |
| 2500 3505 01 1145 1210 12011  |   |   | •   |  |  |
|   |   |   |   |  |  |
| DEPARTMENT OF MECHANICAL AND INDUSTRIAL EN  | GINEER  | ING   |   |  |  |
| DEPARTMENT OF MECHANICAL AND INDUSTRIAL EN INDUSTRIAL ENGINEERING   | GINEER  | ING   |   |  |  |
|   | GINEER<br>TBA   | ING   | STAFF   |  | NEW  |
| INDUSTRIAL ENGINEERING  |   | ING   | STAFF<br>STAFF  |  | NEW<br>NEW   |
| INDUSTRIAL ENGINEERING 4423 3551-01 QUANTITATIVE METHODS  | TBA   | ING   |   |  |  |
| INDUSTRIAL ENGINEERING 4423 3551-01 QUANTITATIVE METHODS  | TBA   | ING   |   |  |  |
| INDUSTRIAL ENGINEERING 4423 3551-01 QUANTITATIVE METHODS 4424 3554-01 ADV ENGR ECONOMY  | TBA   | ING   |   |  |  |
| INDUSTRIAL ENGINEERING 4423 3551-01 QUANTITATIVE METHODS 4424 3554-01 ADV ENGR ECONOMY  COLLEGE OF LIBERAL ARTS   | TBA   | ING   |   |  |  |
| INDUSTRIAL ENGINEERING 4423 3551-01 QUANTITATIVE METHODS 4424 3554-01 ADV ENGR ECONOMY  COLLEGE OF LIBERAL ARTS DEPARTMENT OF CRIMINAL JUSTICE  | TBA<br>TBA  |   | STAFF   |  | NEW  |
| INDUSTRIAL ENGINEERING 4423 3551-01 QUANTITATIVE METHODS 4424 3554-01 ADV ENGR ECONOMY  COLLEGE OF LIBERAL ARTS DEPARTMENT OF CRIMINAL JUSTICE 2188 3101-02 INTRO TO CRIM JUSTICE   | TBA<br>TBA<br>MWF   | 0900-1000   | STAFF  GUINN  | LA116  | new<br>Change  |
| INDUSTRIAL ENGINEERING 4423 3551-01 QUANTITATIVE METHODS 4424 3554-01 ADV ENGR ECONOMY  COLLEGE OF LIBERAL ARTS DEPARTMENT OF CRIMINAL JUSTICE 2188 3101-02 INTRO TO CRIM JUSTICE 2190 3101-90 INTRO TO CRIM JUSTICE  | TBA<br>TBA<br>MWF<br>MON  | 0900-1000<br>1900-2200  | GUINN<br>GUINN  | LA 220   | NEW<br>CHANGE<br>CHANGE  |
| INDUSTRIAL ENGINEERING 4423 3551-01 QUANTITATIVE METHODS 4424 3554-01 ADV ENGR ECONOMY  COLLEGE OF LIBERAL ARTS DEPARTMENT OF CRIMINAL JUSTICE 2188 3101-02 INTRO TO CRIM JUSTICE 2190 3101-90 INTRO TO CRIM JUSTICE 2198 3201-01 CRIMINAL INVESTIGATION  | TBA<br>TBA<br>MWF<br>MON<br>MWF                                 | 0900-1000<br>1900-2200<br>1100-1200   | STAFF  GUINN GUINN STAFF  | LA220<br>LA220   | NEW CHANGE CHANGE CHANGE   |
| INDUSTRIAL ENGINEERING 4423 3551-01 QUANTITATIVE METHODS 4424 3554-01 ADV ENGR ECONOMY  COLLEGE OF LIBERAL ARTS DEFARTMENT OF CRIMINAL JUSTICE 2188 3101-02 INTRO TO CRIM JUSTICE 2190 3101-90 INTRO TO CRIM JUSTICE 2198 3201-01 CRIMINAL INVESTIGATION 2200 3201-90 CRIMINAL INVESTIGATION  | TBA<br>TBA<br>MWF<br>MON<br>MWF<br>TUE                          | 0900-1000<br>1900-2200<br>1100-1200<br>1900-2200  | GUINN<br>GUINN<br>GUINN<br>STAFF<br>STAFF   | LA220<br>LA220<br>LA220  | NEW CHANGE CHANGE CHANGE CHANGE  |
| INDUSTRIAL ENGINEERING 4423 3551-01 QUANTITATIVE METHODS 4424 3554-01 ADV ENGR ECONOMY  COLLEGE OF LIBERAL ARTS DEPARTMENT OF CRIMINAL JUSTICE 2188 3101-02 INTRO TO CRIM JUSTICE 2190 3101-90 INTRO TO CRIM JUSTICE 2198 3201-01 CRIMINAL INVESTIGATION  | TBA<br>TBA<br>MWF<br>MON<br>MWF                                 | 0900-1000<br>1900-2200<br>1100-1200   | STAFF  GUINN GUINN STAFF  | LA220<br>LA220   | NEW CHANGE CHANGE CHANGE   |
| INDUSTRIAL ENGINEERING 4423 3551-01 QUANTITATIVE METHODS 4424 3554-01 ADV ENGR ECONOMY  COLLEGE OF LIBERAL ARTS DEPARTMENT OF CRIMINAL JUSTICE 2188 3101-02 INTRO TO CRIM JUSTICE 2190 3101-90 INTRO TO CRIM JUSTICE 2198 3201-01 CRIMINAL INVESTIGATION 2204 3307-01 CRIMINAL INVESTIGATION 2224 3307-01 CRIMINALISTICS  | TBA<br>TBA<br>MWF<br>MON<br>MWF<br>TUE                          | 0900-1000<br>1900-2200<br>1100-1200<br>1900-2200  | GUINN<br>GUINN<br>GUINN<br>STAFF<br>STAFF   | LA220<br>LA220<br>LA220  | NEW CHANGE CHANGE CHANGE CHANGE  |
| INDUSTRIAL ENGINEERING 4423 3551-01 QUANTITATIVE METHODS 4424 3554-01 ADV ENGR ECONOMY  COLLEGE OF LIBERAL ARTS DEPARTMENT OF CRIMINAL JUSTICE 2188 3101-02 INTRO TO CRIM JUSTICE 2190 3101-90 INTRO TO CRIM JUSTICE 2198 3201-01 CRIMINAL INVESTIGATION 2200 3201-90 CRIMINAL INVESTIGATION 2224 3307-01 CRIMINALISTICS  DEPARTMENT OF DRAMA AND SPEECH  | TBA<br>TBA<br>MWF<br>MON<br>MWF<br>TUE                          | 0900-1000<br>1900-2200<br>1100-1200<br>1900-2200  | GUINN<br>GUINN<br>GUINN<br>STAFF<br>STAFF   | LA220<br>LA220<br>LA220  | NEW CHANGE CHANGE CHANGE CHANGE  |
| INDUSTRIAL ENGINEERING 4423 3551-01 QUANTITATIVE METHODS 4424 3554-01 ADV ENGR ECONOMY  COLLECE OF LIBERAL ARTS DEFARTMENT OF CRIMINAL JUSTICE 2188 3101-02 INTRO TO CRIM JUSTICE 2190 3101-90 INTRO TO CRIM JUSTICE 2198 3201-01 CRIMINAL INVESTIGATION 2200 3201-90 CRIMINAL INVESTIGATION 2224 3307-01 CRIMINAL STICS  DEPARTMENT OF DRAMA AND SPEECH SPEECH   | TBA TBA MWF MON MWF TUE TT                                      | 0900-1000<br>1900-2200<br>1100-1200<br>1900-2200<br>0930-1100   | GUINN<br>GUINN<br>STAFF<br>STAFF<br>DISSLY  | LA220<br>LA220<br>LA220<br>CRB304  | NEW  CHANGE CHANGE CHANGE CHANGE CHANGE  |
| INDUSTRIAL ENGINEERING 4423 3551-01 QUANTITATIVE METHODS 4424 3554-01 ADV ENGR ECONOMY  COLLECE OF LIBERAL ARTS DEPARTMENT OF CRIMINAL JUSTICE 2188 3101-02 INTRO TO CRIM JUSTICE 2190 3101-90 INTRO TO CRIM JUSTICE 2198 3201-01 CRIMINAL INVESTIGATION 2200 3201-90 CRIMINAL INVESTIGATION 2204 3307-01 CRIMINAL INVESTIGATION 2224 3307-01 CRIMINALISTICS  DEPARTMENT OF DRAMA AND SPEECH SPEECH 7154 3101-01 PUBLIC SPEAKING  | TRA TRA  MWF MON MWF TUE TT                                     | 0900-1000<br>1900-2200<br>1100-1200<br>1900-2200<br>0930-1100   | GUINN<br>GUINN<br>STAFF<br>STAFF<br>DISSLY  | LA220<br>LA220<br>LA220<br>CRB304<br>FAD071  | CHANGE CHANGE CHANGE CHANGE CHANGE CHANGE  |
| INDUSTRIAL ENGINEERING 4423 3551-01 QUANTITATIVE METHODS 4424 3554-01 ADV ENGR ECONOMY  COLLEGE OF LIBERAL ARTS DEPARTMENT OF CRIMINAL JUSTICE 2188 3101-02 INTRO TO CRIM JUSTICE 2190 3101-90 INTRO TO CRIM JUSTICE 2198 3201-01 CRIMINAL INVESTIGATION 2200 3201-90 CRIMINAL INVESTIGATION 2224 3307-01 CRIMINALISTICS  DEPARTMENT OF DRAMA AND SPEECH SPEECH 7154 3101-01 PUBLIC SPEAKING 7158 3101-03 PUBLIC SPEAKING   | TRA TRA MWF MON MWF TUE TT                                      | 0900-1000<br>1900-2200<br>1100-1200<br>1900-2200<br>0930-1100   | GUINN<br>GUINN<br>STAFF<br>STAFF<br>DISSLY<br>STAFF<br>STAFF  | LA220<br>LA220<br>LA220<br>CRB304<br>FAD071<br>FAD075  | CHANGE CHANGE CHANGE CHANGE CHANGE CHANGE CHANGE   |
| INDUSTRIAL ENGINEERING 4423 3551-01 QUANTITATIVE METHODS 4424 3554-01 ADV ENGR ECONOMY  COLLEGE OF LIBERAL ARTS DEPARTMENT OF CRIMINAL JUSTICE 2188 3101-02 INTRO TO CRIM JUSTICE 2190 3101-90 INTRO TO CRIM JUSTICE 2198 3201-01 CRIMINAL INVESTIGATION 2200 3201-90 CRIMINAL INVESTIGATION 2224 3307-01 CRIMINALISTICS  DEPARTMENT OF DRAMA AND SPEECH SPEECH 7154 3101-01 PUBLIC SPEAKING 7158 3101-03 PUBLIC SPEAKING 7160 3101-04 PUBLIC SPEAKING  | TBA TBA  MWF MON MWF TUE TT  MWF MWF                            | 0900-1000<br>1900-2200<br>1100-1200<br>1900-2200<br>0930-1100<br>0800-0900<br>1000-1100   | GUINN<br>GUINN<br>STAFF<br>STAFF<br>DISSLY<br>STAFF<br>STAFF<br>STAFF<br>STAFF  | LA220<br>LA220<br>LA220<br>CRB304<br>FAD071<br>FAD075<br>FAD071  | CHANGE CHANGE CHANGE CHANGE CHANGE CHANGE CHANGE DELETE DELETE DELETE  |
| INDUSTRIAL ENGINEERING 4423 3551-01 QUANTITATIVE METHODS 4424 3554-01 ADV ENGR ECONOMY  COLLECE OF LIBERAL ARTS DEFARTMENT OF CRIMINAL JUSTICE 2188 3101-02 INTRO TO CRIM JUSTICE 2190 3101-90 INTRO TO CRIM JUSTICE 2198 3201-01 CRIMINAL INVESTIGATION 2200 3201-90 CRIMINAL INVESTIGATION 2224 3307-01 CRIMINALISTICS  DEPARTMENT OF DRAMA AND SPEECH SPEECH 7154 3101-01 PUBLIC SPEAKING 7158 3101-03 PUBLIC SPEAKING 7160 3101-04 PUBLIC SPEAKING 7168 3101-08 PUBLIC SPEAKING   | TBA TBA MWF MON MWF TTE MWF MWF TT                              | 0900-1000<br>1900-2200<br>1100-1200<br>1900-2200<br>0930-1100<br>0800-0900<br>1000-1100<br>0800-0930  | GUINN GUINN STAFF STAFF DISSLY STAFF STAFF STAFF STAFF STAFF STAFF STAFF  | LA220<br>LA220<br>LA220<br>CRB304<br>FAD071<br>FAD075<br>FAD071<br>FAD075  | CHANGE CHANGE CHANGE CHANGE CHANGE CHANGE DELETE DELETE DELETE DELETE  |
| INDUSTRIAL ENGINEERING 4423 3551-01 QUANTITATIVE METHODS 4424 3554-01 ADV ENGR ECONOMY  COLLECE OF LIBERAL ARTS DEPARTMENT OF CRIMINAL JUSTICE 2188 3101-02 INTRO TO CRIM JUSTICE 2190 3101-90 INTRO TO CRIM JUSTICE 2198 3201-01 CRIMINAL INVESTIGATION 2200 3201-90 CRIMINAL INVESTIGATION 2204 3307-01 CRIMINAL INVESTIGATION 2224 3307-01 CRIMINALISTICS  DEPARTMENT OF DRAMA AND SPEECH SPEECH 7154 3101-01 PUBLIC SPEAKING 7158 3101-03 PUBLIC SPEAKING 7168 3101-04 PUBLIC SPEAKING 7168 3101-09 PUBLIC SPEAKING 7170 3101-09 PUBLIC SPEAKING  | TBA TBA MWF MON MWF TTE TT MWF MWF TTT TT                       | 0900-1000<br>1900-2200<br>1100-1200<br>1900-22100<br>0930-1100<br>0800-0900<br>1000-1100<br>0800-0930<br>0930-1100  | GUINN GUINN STAFF STAFF DISSLY STAFF STAFF STAFF STAFF STAFF STAFF STAFF STAFF  | LA220<br>LA220<br>LA220<br>CRB304<br>FAD071<br>FAD075<br>FAD071<br>FAD075<br>FAD071  | CHANGE CHANGE CHANGE CHANGE CHANGE DELETE DELETE DELETE DELETE DELETE  |
| INDUSTRIAL ENGINEERING 4423 3551-01 QUANTITATIVE METHODS 4424 3554-01 ADV ENGR ECONOMY  COLLEGE OF LIBERAL ARTS DEPARTMENT OF CRIMINAL JUSTICE 2198 3101-02 INTRO TO CRIM JUSTICE 2199 3101-90 INTRO TO CRIM JUSTICE 2198 3201-01 CRIMINAL INVESTIGATION 2200 3201-90 CRIMINAL INVESTIGATION 2224 3307-01 CRIMINAL INVESTIGATION 2224 3307-01 CRIMINAL INVESTIGATION 2224 3301-01 PUBLIC SPEAKING 7154 3101-01 PUBLIC SPEAKING 7160 3101-04 PUBLIC SPEAKING 7160 3101-05 PUBLIC SPEAKING 7170 3101-09 PUBLIC SPEAKING 71712 3101-10 PUBLIC SPEAKING   | TBA TBA MWF MON MWF TTE MWF MWF TT                              | 0900-1000<br>1900-2200<br>1100-1200<br>1900-22100<br>0930-1100<br>0800-0900<br>1000-1100<br>1000-1100<br>0800-0930<br>0930-1100   | GUINN GUINN STAFF STAFF DISSLY STAFF STAFF STAFF STAFF STAFF STAFF STAFF STAFF STAFF  | LA220<br>LA220<br>LA220<br>CRB304<br>FAD071<br>FAD075<br>FAD071<br>FAD071<br>FAD071  | CHANGE CHANGE CHANGE CHANGE CHANGE CHANGE DELETE DELETE DELETE DELETE CHANGE   |
| INDUSTRIAL ENGINEERING 4423 3551-01 QUANTITATIVE METHODS 4424 3554-01 ADV ENGR ECONOMY  COLLEGE OF LIBERAL ARTS DEPARTMENT OF CRIMINAL JUSTICE 2188 3101-02 INTRO TO CRIM JUSTICE 2190 3101-90 INTRO TO CRIM JUSTICE 2198 3201-01 CRIMINAL INVESTIGATION 2200 3201-90 CRIMINAL INVESTIGATION 2224 3307-01 CRIMINALISTICS  DEPARTMENT OF DRAMA AND SPEECH SPEECH 7154 3101-01 PUBLIC SPEAKING 7158 3101-03 PUBLIC SPEAKING 7160 3101-04 PUBLIC SPEAKING 7170 3101-09 FUBLIC SPEAKING 7171 3101-09 FUBLIC SPEAKING 7172 3101-10 PUBLIC SPEAKING 7174 3101-11 PUBLIC SPEAKING  | THA THA  MWF MON MWF TUE TT  MWF TTT TT                         | 0900-1000<br>1900-2200<br>1100-1200<br>1900-2200<br>0930-1100<br>0800-0900<br>1000-1100<br>0800-0930<br>0930-1100<br>0930-1100<br>1100-1230   | GUINN GUINN STAFF STAFF DISSLY  STAFF   | LA220<br>LA220<br>LA220<br>CRB304<br>FAD071<br>FAD075<br>FAD071<br>FAD071<br>FAD071<br>FAD071  | CHANGE  |
| INDUSTRIAL ENGINEERING 4423 3551-01 QUANTITATIVE METHODS 4424 3554-01 ADV ENGR ECONOMY  COLLECE OF LIBERAL ARTS DEFARTMENT OF CRIMINAL JUSTICE 2188 3101-02 INTRO TO CRIM JUSTICE 2198 3201-01 INTRO TO CRIM JUSTICE 2198 3201-01 CRIMINAL INVESTIGATION 2200 3201-90 CRIMINAL INVESTIGATION 2224 3307-01 CRIMINAL INVESTIGATION 2224 3307-01 CRIMINALISTICS  DEPARTMENT OF DRAMA AND SPEECH SPEECH 7154 3101-01 PUBLIC SPEAKING 7158 3101-03 PUBLIC SPEAKING 7160 3101-04 PUBLIC SPEAKING 7170 3101-09 PUBLIC SPEAKING 7171 3101-10 FUBLIC SPEAKING 7172 3101-11 FUBLIC SPEAKING 7174 3101-11 PUBLIC SPEAKING 7174 3101-11 PUBLIC SPEAKING 71780 3101-90 PUBLIC SPEAKING   | TBA TEA  MWF MON MWF TTE TT TT TT TT TT MW                      | 0900-1000<br>1900-2200<br>1100-1200<br>1900-2200<br>0930-1100<br>0800-0930<br>0930-1100<br>0800-0930<br>0930-1100<br>0930-1100<br>1100-1230<br>1900-2030  | GUINN GUINN STAFF STAFF DISSLY  STAFF   | LA220<br>LA220<br>LA220<br>CRB304<br>FAD071<br>FAD075<br>FAD071<br>FAD071<br>FAD071<br>LA103   | CHANGE CHANGE CHANGE CHANGE CHANGE CHANGE DELETE DELETE DELETE DELETE CHANGE CHANGE DELETE   |
| INDUSTRIAL ENGINEERING 4423 3551-01 QUANTITATIVE METHODS 4424 3554-01 ADV ENGR ECONOMY  COLLECE OF LIBERAL ARTS DEPARTMENT OF CRIMINAL JUSTICE 2188 3101-02 INTRO TO CRIM JUSTICE 2190 3101-90 INTRO TO CRIM JUSTICE 2198 3201-01 CRIMINAL INVESTIGATION 2200 3201-90 CRIMINAL INVESTIGATION 2204 3307-01 CRIMINAL INVESTIGATION 2224 3307-01 CRIMINALISTICS  DEPARTMENT OF DRAMA AND SPEECH SPEECH 7154 3101-01 PUBLIC SPEAKING 7160 3101-04 PUBLIC SPEAKING 7163 3101-05 PUBLIC SPEAKING 7170 3101-09 PUBLIC SPEAKING 7174 3101-10 PUBLIC SPEAKING 7174 3101-11 PUBLIC SPEAKING 7174 3101-10 PUBLIC SPEAKING 7174 3101-11 PUBLIC SPEAKING 7176 3101-09 PUBLIC SPEAKING 7177 3101-10 PUBLIC SPEAKING 7178 3101-10 PUBLIC SPEAKING 7178 3101-10 PUBLIC SPEAKING 7180 3101-90 PUBLIC SPEAKING 7180 3101-90 PUBLIC SPEAKING 7180 3101-90 PUBLIC SPEAKING 7180 3101-90 PUBLIC SPEAKING | MWF MWF TT TT TT TT   | 0900-1000<br>1900-2200<br>1100-1200<br>1900-22100<br>0930-1100<br>0800-0900<br>1000-1100<br>0800-0930<br>0930-1100<br>1000-1230<br>1900-2030<br>0800-0900                                       | GUINN GUINN STAFF STAFF DISSLY  STAFF   | FADO71<br>FADO71<br>FADO75<br>FADO71<br>FADO75<br>FADO71<br>FADO71<br>FADO71<br>FADO71<br>FADO71<br>FADO71   | CHANGE  |
| INDUSTRIAL ENGINEERING 4423 3551-01 QUANTITATIVE METHODS 4424 3554-01 ADV ENGR ECONOMY  COLLECE OF LIBERAL ARTS DEPARTMENT OF CRIMINAL JUSTICE 2188 3101-02 INTRO TO CRIM JUSTICE 2190 3101-90 INTRO TO CRIM JUSTICE 2198 3201-01 CRIMINAL INVESTIGATION 2200 3201-90 CRIMINAL INVESTIGATION 2204 3307-01 CRIMINAL INVESTIGATION 2224 3307-01 CRIMINALISTICS  DEPARTMENT OF DRAMA AND SPEECH SPEECH 7154 3101-01 PUBLIC SPEAKING 7160 3101-04 PUBLIC SPEAKING 7168 3101-09 PUBLIC SPEAKING 7170 3101-09 PUBLIC SPEAKING 7174 3101-10 PUBLIC SPEAKING 7174 3101-11 PUBLIC SPEAKING 7176 3101-09 PUBLIC SPEAKING 7177 3101-10 PUBLIC SPEAKING 7178 3101-10 PUBLIC SPEAKING 7178 3101-10 PUBLIC SPEAKING 7178 3101-10 PUBLIC SPEAKING 7180 3101-90 PUBLIC SPEAKING 7180 3101-90 PUBLIC SPEAKING 7180 3101-90 PUBLIC SPEAKING   | TBA TBA  MWF MON MWF TTE TT TT TT TT TMW MWF                    | 0900-1000<br>1900-2200<br>1100-1200<br>1900-2200<br>0930-1100<br>0800-0900<br>1000-1100<br>0800-0930<br>0930-1100<br>1100-1230<br>1900-2030<br>0800-0900  | GUINN GUINN STAFF   | FADO71<br>FADO71<br>FADO75<br>FADO71<br>FADO71<br>FADO71<br>FADO71<br>FADO71<br>FADO71<br>FADO71<br>FADO71<br>FADO75                                   | CHANGE CHANGE CHANGE CHANGE CHANGE CHANGE DELETE DELETE DELETE CHANGE CHANGE CHANGE CHANGE CHANGE DELETE DELETE  |
| INDUSTRIAL ENGINEERING 4423 3551-01 QUANTITATIVE METHODS 4424 3554-01 ADV ENGR ECONOMY  COLLEGE OF LIBERAL ARTS DEPARTMENT OF CRIMINAL JUSTICE 2188 3101-02 INTRO TO CRIM JUSTICE 2190 3101-90 INTRO TO CRIM JUSTICE 2198 3201-01 CRIMINAL INVESTIGATION 2200 3201-90 CRIMINAL INVESTIGATION 2224 3307-01 CRIMINAL INVESTIGATION 2224 3307-01 CRIMINAL INVESTIGATION 2224 3301-01 PUBLIC SPEAKING 7154 3101-01 PUBLIC SPEAKING 7160 3101-04 PUBLIC SPEAKING 7160 3101-05 PUBLIC SPEAKING 7170 3101-09 PUBLIC SPEAKING 7171 3101-11 PUBLIC SPEAKING 7174 3101-11 PUBLIC SPEAKING 7186 3102-02 BUSN & FROF COMMUN 7188 3102-03 BUSN & FROF COMMUN   | TBA TBA  MWF MON MWF TUE TT  TT TT TT HW MWF MWF MWF            | 0900-1000<br>1900-2200<br>1100-1200<br>1900-22100<br>0930-1100<br>0800-0900<br>1000-1100<br>0800-0930<br>0930-1100<br>1000-1230<br>1900-2030<br>0800-0900                                       | GUINN GUINN STAFF STAFF DISSLY  STAFF   | FADO71<br>FADO71<br>FADO75<br>FADO71<br>FADO75<br>FADO71<br>FADO71<br>FADO71<br>FADO71<br>FADO71<br>FADO71   | CHANGE  |
| INDUSTRIAL ENGINEERING 4423 3551-01 QUANTITATIVE METHODS 4424 3554-01 ADV ENGR ECONOMY  COLLEGE OF LIBERAL ARTS DEPARTMENT OF CRIMINAL JUSTICE 2188 3101-02 INTRO TO CRIM JUSTICE 2190 3101-90 INTRO TO CRIM JUSTICE 2198 3201-01 CRIMINAL INVESTIGATION 2200 3201-90 CRIMINAL INVESTIGATION 2224 3307-01 CRIMINALISTICS  DEPARTMENT OF DRAMA AND SPEECH SPEECH 7154 3101-01 PUBLIC SPEAKING 7158 3101-03 PUBLIC SPEAKING 7160 3101-04 PUBLIC SPEAKING 7170 3101-09 PUBLIC SPEAKING 7171 3101-09 PUBLIC SPEAKING 7172 3101-10 PUBLIC SPEAKING 7174 3101-11 PUBLIC SPEAKING 7176 3101-09 PUBLIC SPEAKING 7176 3101-09 PUBLIC SPEAKING 7177 3101-10 PUBLIC SPEAKING 7178 3101-01 PUBLIC SPEAKING 7178 3101-01 PUBLIC SPEAKING 7186 3102-03 BUSN & PROF COMMUN 7188 3102-03 BUSN & PROF COMMUN 7194 3102-06 BUSN & PROF COMMUN   | TBA TBA  MWF MON MWF TUE TT  TT TT TT TT TT MW MWF MWF MWF      | 0900-1000<br>1900-2200<br>1100-1200<br>1900-2200<br>0930-1100<br>0800-0930<br>0930-1100<br>0930-1100<br>1100-1230<br>1900-2030<br>0990-1000<br>1400-1500  | GUINN GUINN STAFF STAFF DISSLY  STAFF MICULKA   | FADO71<br>FADO71<br>FADO75<br>FADO71<br>FADO75<br>FADO71<br>FADO71<br>FADO71<br>FADO71<br>FADO71<br>LA103<br>LA103<br>FADO75<br>LA103                  | CHANGE CHANGE CHANGE CHANGE CHANGE CHANGE CHANGE CHANGE CHANGE DELETE   |
| COLLECE OF LIBERAL ARTS   | TBA TEA  MWF MON MWF TUE TT | 0900-1000<br>1900-2200<br>1100-1200<br>1900-2200<br>0930-1100<br>0800-0930<br>0930-1100<br>0930-1100<br>1100-1230<br>1900-2030<br>0800-0930<br>0900-1000<br>1400-1500<br>0800-0930              | GUINN GUINN STAFF STAFF DISSLY  STAFF   | LA220<br>LA220<br>LA220<br>CRB304<br>FAD071<br>FAD075<br>FAD071<br>FAD071<br>FAD071<br>FAD071<br>LA103<br>LA103<br>FAD075<br>LA103                     | CHANGE CHANGE CHANGE CHANGE CHANGE DELETE DELETE DELETE DELETE CHANGE DELETE   |
| COLLEGE OF LIBERAL ARTS   | TBA TBA  MWF MON MWF TTE TT    | 0900-1000<br>1900-2200<br>1900-2200<br>0930-1100<br>0800-0900<br>1000-1100<br>0800-0930<br>0930-1100<br>1100-1230<br>1900-2030<br>0800-0900<br>0900-1000<br>1400-1500<br>0800-0930<br>0930-1100 | GUINN GUINN STAFF | FADO71<br>FADO71<br>FADO75<br>FADO71<br>FADO75<br>FADO71<br>FADO71<br>FADO71<br>FADO71<br>FADO71<br>LA103<br>LA103<br>LA103<br>LA103<br>LA103          | CHANGE                                    |
| COLLEGE OF LIBERAL ARTS   | TBA TBA  MWF MON MWF TUE TT | 0900-1000<br>1900-2200<br>1100-1200<br>1900-2200<br>0930-1100<br>0800-0930<br>0930-1100<br>0930-1100<br>1100-1230<br>1900-2030<br>0800-0930<br>0900-1000<br>1400-1500<br>0800-0930<br>0930-1100 | GUINN GUINN STAFF TUCKER TUCKER   | FADO71<br>FADO71<br>FADO75<br>FADO71<br>FADO75<br>FADO71<br>FADO71<br>FADO71<br>FADO71<br>FADO71<br>LA103<br>LA103<br>LA103<br>LA101<br>LA102<br>LA107 | CHANGE |

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SPEECH PATHOLOGY

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5778 3563-01 ORGANIC SPCH DISORDER 5783 3565-01 ADVANCED AUDIOLOGY

ADVANCED AUDIOMETRICS DISORD OF LANGUAGE PROF LAB EXP ELEM PROF LAB EXP SEC

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|--------------|--------------|---|---------|-----------|-------------|----------------|------------------|
|              | SKILLS       | ENGLISH                                       |         |           |             |                |                  |
| 3229         | 3121-15      | INTRO COLLEGE STUDY                           | MME     | 0900-1000 | GOOM        | U213W          | NEW              |
| ENGL         |              | INTRO COLLEGE STOPT                           | Line    | 0300=1000 | MOOD        | UZIJW          | МТМ              |
| 2886         | 3110-04      | BASIC ENGLISH COMP                            | MWF     | 0800-0900 | STAFF       | LA 304         | CHANCE           |
| 2888         | 3110-05      | BASIC ENGLISH COMP                            | MWF     | 0800-0900 | STAFF       | LA102          | CHANGE           |
| 2890         | 3110-06      | BASIC ENGLISH COMP                            | MWF     | 0800-0900 | STAFF       | LA107          | CHANGE           |
| 2900         | 3110-11      | BASIC ENGLISH COMP                            | TT      | 0800-0930 | STAFF       | LA204          | CHANCE           |
| 2902         | 3110-12      | BASIC ENGLISH COMP                            | TT      | 0800-0930 | STAFF       | LA 205         | CHANCE           |
| 2908         | 3110-15      | BASIC ENGLISH COMP                            | MWF     | 0900-1000 | STAFF       | LA107          | CHANCE           |
| 2910         | 3110-16      | BASIC ENGLISH COMP                            | MWF     | 0900-1000 | STAFF       | LA122          | CHANGE           |
| 2912         | 3110-17      | BASIC ENGLISH COMP                            | MWF     | 0900-1000 | STAFF       | ED301          | CHANGE           |
| 2920         | 3110-21      | BASIC ENGLISH COMP                            | TT      | 0930-1100 | STAFF       | LA206          | CHANGE           |
| 2922         | 3110-22      | BASIC ENGLISH COMP                            | TT      | 0930-1100 | STAFF       | CRB102         | CHANCE           |
| 2928         | 3110-25      | BASIC ENGLISH COMP                            | MWF     | 1000-1100 | STAFF       | ED305          | CHANCE           |
| 2930         | 3110-26      | BASIC ENGLISH COMP                            | MAT     | 1000-1100 | STAFF       | CRB102         | CHANCE           |
| 2932         | 3110-27      | BASIC ENGLISH COMP                            | MWF     | 1000-1100 | STAFF       | CRB003         | CHANGE           |
| 2938         | 3110-30      | BASIC ENGLISH COMP                            | MWF     | 1100-1200 | STAFF       | LA106          | CHANCE           |
| 2940         | 3110-31      | BASIC ENGLISH COMP                            | MWF     | 1100-1200 | STAFF       | LA410          | CHANGE           |
| 2942         | 3110-32      | BASIC ENGLISH COMP                            | MVF     | 1100-1200 | STAFF       | 1A222          | CHANGE           |
| 2950         | 3110-36      | BASIC ENGLISH COMP                            | TT      | 1100-1230 | STAFF       | LA101          | CHANGE           |
| <b>29</b> 60 | 3110-41      | BASIC ENGLISH COMP                            | MWF     | 1200-1300 | STAFF       | LA107          | CHANGE           |
| 2962         | 3110-42      | BASIC ENGLISH COMP                            | MWF     | 1200-1300 | STAFF       | LA122          | CHANGE           |
| 2964         | 3110-43      | BASIC ENGLISH COMP                            | TT      | 1230-1400 | STAFF       | <u>LA107</u>   | CHANCE           |
| 2966         | 3110-44      | BASIC ENGLISH COMP                            | TT      | 1230-1400 | STAFF       | LA203          | CHANCE           |
| 2980         | 3110-51      | BASIC ENGLISH COMP                            | MWF     | 1300-1400 | STAFF       | LA301          | CHANCE           |
| 2982         | 3110-52      | BASIC ENGLISH COMP                            | MAT     | 1300-1400 | STAFF       | LA306          | CHANGE           |
| 3048         | 3111-08      | INTERMEDIATE ENGL COMP                        | MUF     | 0900-1000 | STAFF       | CRB102         | CHANGE           |
| 3050         | 3111-09      | INTERMEDIATE ENGL COMP                        | MWF     | 0900-1000 | STAFF       | CRB004         | CHANCE           |
| 3056         | 3111-12      | INTERMEDIATE ENGL COMP                        | TT      | 0930-1100 | STAFF       | ED309          | CHANCE           |
| 3066         | 3111-17      | INTERMEDIATE ENGL COMP                        | MWF     | 1000-1100 | STAFF       | HUD 100        | CHANGE           |
| 3074         | 3111-21      | INTERMEDIATE ENGL COMP                        | MWF     | 1100-1200 | STAFF       | HUD100         | CHANCE           |
| 3084         | 3111-26      | INTERMEDIATE ENGL COMP                        | TT      | 1100-1230 | STAFF       | ED317          | CHANCE           |
| 3136         | 3112-04      | RESEARCH & WRITING                            | TT      | 0800-0930 | DAY         | LA404          | CHANGE           |
| 3146         | 3114 00      | (THE RIO GRANDE VALLEY)                       | N# 777  | 0000 1000 | CALLA CITED | bancos         | G11431-          |
| 3140         | 3112-09      | RESEARCH & WRITING                            | MWF     | 0900-1000 | GALLACHER   | PSY307         | CHANCE           |
| 3150         | 3112-11      | (MYTH)  | TO THE  | 0000 1100 | 017         | 74106          | autra            |
| 7130         | 3112-11      | RESEARCH & WRITING<br>(THE RIO GRANDE VALLEY) | TT      | 0930-1100 | DAY         | LA106          | CHANGE           |
| 3152         | 3112-12      | RESEARCH & WRITING                            | TT      | 0930-1100 | STAFF       | ED212          | CHANCE           |
| 3156         | 3112-14      | RESEARCH & WRITING                            | MWE     | 1000-1100 |             | ED313<br>LA408 | CHANGE<br>CHANGE |
| 3130         | 3112-14      | (MYTH)  | FIME    | 1000-1100 | CALLACHER   | 13408          | CHANGE           |
| 3160         | 3112-16      | RESEARCH & WRITING                            | MWF     | 1100-1200 | EHMANN      | LA407          | CHANCE           |
| 3200         | 3112-10      | (MASS MEDIA)                                  | I I I I | 1100-1200 | ETPHIN      | LA40/          | CHANCE           |
| 3162         | 3112-17      | RESEARCH & WRITING                            | MWF     | 1100-1200 | WEST        | LA309          | CHANCE           |
| 3166         | 3112-19      | RESEARCH & WRITING                            | TT      | 1100-1200 | BRADDY      | HUD200         | CHANCE           |
| 2100         | 3411-13      | (LIFE AND TIMES OF PANCHO                     |         | 1100-1230 | DIGUDI      | 1100200        | CIMINGE          |
| 3168         | 3112-20      | RESEARCH & WRITING                            | TT      | 1100-1230 | STAFFORD    | 1A408          | CHANGE           |
|              | <b>-</b>     | (COMEDY)                                      |         | 1100-1130 | DOI: LOND   | 221-00         | 0.2              |
| 3172         | 3112-22      | RESEARCH & WRITING                            | MVF     | 1200-1300 | STAFFORD    | LA406          | CHANGE           |
|              | ·            | (COMEDY)                                      |         |           |             |                |                  |
| 3180         | 3112-26      | RESEARCH & WRITING                            | TT      | 1230-1400 | SERRANO     | LA408          | CHANCE           |
|              | <del>-</del> | (BORDER STUDIES)                              | ==      | _:        |             |                |                  |
| 3184         | 3112-28      | RESEARCH & WRITING                            | MWF     | 1300-1400 | MARCHINO    | LA404          | CHANCE           |
|              |              | (WOMEN IN AMERICA)                            |         |           |             | • •            |                  |

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3214-09

3311-02

3570-01

3572-90

3528 3570-90

3184 3112-28 RESEARCH & WRITING (WOMEN IN AMERICA) 3234 6111-01 COMMUNICATION

3236 6111-02 COMMUNICATION 3238 6111-03 COMMUNICATION 3290

APP ANAL NOVEL SH STR APP ANAL NOVEL SH STR 3213-08 3300 3213-13 (FOR FOREIGN STUDENTS ONLY) 3304 APP ANAL NOVEL SH STR 3314 3214-04 APP ANAL DRAMA 3320 3214-07 APP ANAL DRAMA

> AMER LIT TO 1860 ROMANTIC LITERATURE 3333-01 3372-01 FOLKLORE 3455-01 WKSP TEACH ENGL COMP (MEETS WITH CURR 3455-01) 3510-01 RHET COMP - COLLEGE

> > TRANS-GENER GRAMMER

APP ANAL DRAMA

STUDIES IN LANGUAGES (AMERICAN DIALECTS) STUDIES IN LANGUAGES (AMERICAN LANGUAGE)

(FOR FOREIGN STUDENTS ONLY)

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MJ

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0930-1100 1000-1100 ANTONE QUARM 1000-1100 WEST 1630-1800

1630-1800

1900-2030

0900-1100

1000-1200

1100-1300

1000-1100

1230-1400

1900-2030

0930-1100

1100-1230

1300-1400

BOLEY ELERICK 1900-2030

ELERICK

BOLEY COLTHARP

WALKER, R

WALKER, C

COLTHARP

MORTIMER

ETHERLDCE

STANDIFORD COLTHARP

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CARR

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|---|---|--|--|---|--|--|---|
| 3530  | 3573-01   | DIALECTOLOGY   | TT   | 1630-1800   | COLINARP   | I;A203   | NEW   |
|   | MENT OF   |  | _  |   |  |  | 011411077   |
| 4296  | 3202-01   | WEST CIV SINCE 1648  | TT   | 0930-1100   | HACKETT  | <u>LA303</u>   | CHANGE  |
| DE PART   | IMENT OF  | LINGUISTICS  |  |   |  |  |   |
| 4514  | 4103-02   |  | MWF  | 1000-1100   | SHARP  | WH304  | NEW   |
|   |   | (JAPANESE)   | TUE  | 0930-1100   |  |  |   |
|   |   | Modern languaces   |  |   |  |  |   |
| FRENCI  |   | 16th CENTURY LIT   | TUE  | 1630-1930   | BORNSCHEUER  | 1.A210   | CHANGE  |
|   | 3551-01   |  | TUE  | 1630-1930   | BORNSCHEUER  | LA210  | CHANGE  |
| PORTU   | CUESE   |  | mp.4   |   | D A COMP   |  | NEW   |
| 6346<br>SPANI:  |   | SENIOR SEMINAR   | TBA  |   | BAGBY  |  | NEW   |
|   |   | BEGINNING SPANISH  | MWF  | 0800-0900   | STAPF  | LA206  | CHANGE  |
|   | 4101 02   | PPOTENTIA CRANTEU  | TUE<br>MWF   | 0800-0930<br>0800-0900  | (Delete Tue C:<br>BREWER   | Lase Hours)<br>LA301   | CHANGE  |
| 6942<br>6944  |   | BEGINNING SPANISH<br>BEGINNING SPANISH   | MWE  | 0900-1000   | BREWER   | LA308  | CHANGE  |
| 6962  |   | BEGINNING SPANISH  | MWF  | 1200-1300   | STAFF  | LA204  | CHANGE  |
| 6976  | 4102-02   | BEGINNING SPANISH  | MVF  | 0900-1000   | STAFF  | 1A206  | CHANCE  |
| 4000  | 4102 03   | BASIC SPAN-NATIVE SPEAKER  | <u>thu</u><br>MWF  | 1000-1100   | (Delete Thur C) TESCHNER   | LA206  | CHANCE  |
|   |   | BASIC SPAN-NATIVE SPEAKER  | MWF  | 1300-1400   | AYER   | LA204  | CHANGE  |
| 7014  |   | BASIC SPAN-NATIVE SPEAKER  | MWF  | 1100-1200   | AYER   | OM210  | CHANCE  |
| 7048  |   | INT SPAN NATIVE SPEAKER  | MWF  | 1100-1200   | BREWER   | LA209  | CHANCE  |
|   |   | INT SPAN NATIVE SPEAKER  | TT<br>MW   | 1100-1230<br>1900-2030  | TESCHNER<br>RODRIGUEZ  | LA207<br>LA209   | CHANGE<br>CHANGE  |
| 7066<br>7078  |   | SPAN LIT BEFORE 1700<br>HISPANIC CULTURE   | TT   | 1100-1230   | BAGBY  | LA209  | CHANGE  |
|   |   | SPAN-AMERICAN NOVEL  | MWT  | 1400-1500   | FORD   | LA206  | CHANGE  |
|   | 3501-01   | RESEARCH & BIBLIO  | WED  | 1630-1930   | PEREZ  | LA208  | CHANGE  |
| 7110  |   | FREMODERNISH-MOD   | mon<br>TUE   | 1630-1930<br>1630-1930  | GARCIA<br>SHARP  | LA208<br>LA208   | CHANCE<br>CHANCE  |
| 7114<br>7126  |   | LATIN AMERICAN THEATER PROB LANG INSTRUCT  | THU  | 1600-1900   | AYER   | LA208  | DELETE  |
| , ==0   | ••••  |  | •  | •   |  |  |   |
|   |   | PHILOSOPHY   | are b  | 0.000 0.000   | SPRINCER   | WH205  | CHANGE  |
| 6142  | 3451-01   | WORLD HISTORICAL PHILOSOPHER<br>(HUSSERL, HEIDDIGGER, MERLEAU  | TT<br>-PONTY)  | 0800-0930   | STRINGER   | WINZOS   | Olemon  |
| 6148  | 3452-02   | PROB IN PHILOSOPHY-SEM   | TT   | 1100-1230   | BRIONES  | WH205  | NEW   |
| /150  |   |  |  |   |  |  |   |
| 6150  | 3551-01   | WORLD HISTORICAL PHILOSOPHER   | TT   | 0800-0930   | SPRINGER   | WH205  | CHANGE  |
| 6130  | 3551-01   | WORLD HISTORICAL PHILOSOPHER (HUSSERL, HEIDDIGGER, MERLEAU-  |  | 0800-0930   | SPRINGER   | WH205  | CHANGE  |
|   |   |  | PONTY)   |   |  |  |   |
|   | TMENT OF  | (HUSSERL, HEIDDIGGER, MERLEAU-<br>POLITICAL SCIENCE<br>AMERICAN GOVERNMENT   | PONTY) MATE  | 1000-1100   | SPRINGER  CARTER   | WH205<br>PSY306  | CHANGE<br>CHANGE  |
| DEPAR<br>6352   | TMENT OF<br>3110-03   | (HUSSERL, HEIDDIGGER, MERLEAU-<br>POLITICAL SCIENCE<br>AMERICAN GOVERNMENT<br>(THIS CLASS IS OPEN TO ALL ST  | PONTY) MWF UDENTS)   | 1000-1100   | CARTER   | P5Y306   | CHANGE  |
| DEPAR   | TMENT OF<br>3110-03   | (HUSSERL, HEIDDIGGER, MERLEAU-<br>POLITICAL SCIENCE<br>AMERICAN GOVERNMENT<br>(THIS CLASS IS OPEN TO ALL ST  | PONTY) MATE  |   | CARTER<br>VILLARREAL   |  |   |
| DEPAR<br>6352<br>6360   | TMENT OF<br>3110-03<br>3110-07<br>3110-08   | (HUSSERL, HEIDDIGGER, MERLEAU- POLITICAL SCIENCE AMERICAN GOVERNMENT (THIS CLASS IS OPEN TO ALL ST AMERICAN GOVERNMENT AMERICAN GOVERNMENT (ESPECIALLY FOR STUDENTS INTE   | MAF UDENTS TI TT RESTED  | 1000-1100<br>0800-0930<br>0930-1100<br>1N POLITICA  | CARTER VILLARREAL PRICE L SCIENCE)   | PSY306<br>ED108<br>PSY306  | CHANGE<br>CHANGE<br>CHANGE  |
| DEPAR<br>6352<br>6360<br>6362<br>6369   | TMENT OF<br>3110-03<br>3110-07<br>3110-08<br>3110-12  | (HUSSERL, HEIDDIGGER, MERLEAU- POLITICAL SCIENCE AMERICAN GOVERNMENT (THIS CLASS IS OPEN TO ALL ST AMERICAN GOVERNMENT AMERICAN GOVERNMENT (ESPECIALLY FOR STUDENTS INTE AMERICAN GOVERNMENT   | MUF<br>MUF<br>UDENTS)<br>TI<br>TT<br>RESTED  | 1000-1100<br>0800-0930<br>0930-1100<br>1N POLITICA<br>1700-1830   | CARTER VILLARRFAL PRICE LL SCIENCE) CARTER   | PSY306 ED108 PSY306 LA308  | CHANGE<br>CHANGE<br>CHANGE<br>NEW   |
| DEPAR<br>6352<br>6360<br>6362<br>6369<br>6416   | TMENT OF<br>3110-03<br>3110-07<br>3110-08<br>3110-12<br>3324-01   | (HUSSERL, HEIDDIGGER, MERLEAU- POLITICAL SCIENCE AMERICAN GOVERNMENT (THIS CLASS IS OPEN TO ALL ST AMERICAN GOVERNMENT AMERICAN GOVERNMENT (ESPECIALLY FOR STUDENTS INTE AMERICAN GOVERNMENT SOV AND EASTERN EUR POL   | MWF UDENTS) TT TT RESTED MW TT   | 1000-1100<br>0800-0930<br>0930-1100<br>1N POLITICA<br>1700-1830<br>0930-1100  | CARTER VILLARREAL PRICE LL SCIENCE) CARTER KRUSZEWSKI  | PSY306 ED108 PSY306 LA308 LA304  | CHANGE<br>CHANGE<br>CHANGE<br>NEW<br>CHANGE   |
| DEPAR<br>6352<br>6360<br>6362<br>6369<br>6416<br>6432   | TMENT OF 3110-03 3110-07 3110-08 3110-12 3324-01 3334-01  | (HUSSERL, HEIDDIGGER, MERLEAU- POLITICAL SCIENCE AMERICAN GOVERNMENT (THIS CLASS IS OPEN TO ALL ST AMERICAN GOVERNMENT AMERICAN GOVERNMENT (ESPECIALLY FOR STUDENTS INTE AMERICAN GOVERNMENT SOV AND EASTERN EUR POL WEST POL HERITAGE I   | MUF<br>MUF<br>UDENTS)<br>TI<br>TT<br>RESTED  | 1000-1100<br>0800-0930<br>0930-1100<br>1N POLITICA<br>1700-1830   | CARTER  VILLARREAL PRICE LL SCIENCE) CARTER KRUSZEWSKI CARTER  | PSY306 ED108 PSY306 LA308  | CHANGE<br>CHANGE<br>CHANGE<br>NEW   |
| DEPAR<br>6352<br>6360<br>6362<br>6369<br>6416   | TMENT OF 3110-03 3110-08 3110-12 3324-01 3334-01 3501-90  | (HUSSERL, HEIDDIGGER, MERLEAU- POLITICAL SCIENCE AMERICAN GOVERNMENT (THIS CLASS IS OPEN TO ALL ST AMERICAN GOVERNMENT AMERICAN GOVERNMENT (ESPECIALLY FOR STUDENTS INTE AMERICAN GOVERNMENT SOV AND EASTERN EUR POL WEST POL HERITACE I AMER POLITICAL THOUGHT SEM ADVANCED RESEARCH METHOD   | MMF UDENTS) TI TT RESTED MM TT TT TT THU   | 1000-1100<br>0800-0930<br>0930-1100<br>1N FOLITICA<br>1700-1830<br>0930-1100<br>1100-1230<br>1700-1830<br>1900-2200   | CARTER VILLARREAL PRICE LL SCIENCE) CARTER KRUSZEWSKI CARTER CARTER LEONARD  | PSY306 ED108 PSY306 LA308 LA304 LA303 LA304 PSY307   | CHANGE CHANGE CHANGE NEW CHANGE CHANGE CHANGE CHANGE CHANGE   |
| DEPAR<br>6352<br>6360<br>6362<br>6369<br>6416<br>6432<br>6436<br>6472<br>6484   | TMENT OF<br>3110-03<br>3110-07<br>3110-08<br>3110-12<br>3324-01<br>3334-01<br>3336-01<br>3501-90<br>3537-01   | (HUSSERL, HEIDDIGGER, MERLEAU- POLITICAL SCIENCE AMERICAN GOVERNMENT (THIS CLASS IS OPEN TO ALL ST AMERICAN GOVERNMENT AMERICAN GOVERNMENT (ESPECIALLY FOR STUDENTS INTE AMERICAN GOVERNMENT SOV AND EASTERN EUR POL WEST POL HERITAGE I AMER POLITICAL THOUGHT SEM ADVANCED RESEARCH METHOD SEMINAR OF CLASSICS   | MMF (DENTS) TI TT RESTED MW TT TT TT THU MON   | 1000-1100<br>0800-0930<br>0930-1100<br>110 EULTICA<br>1700-1830<br>0930-1100<br>1100-1230<br>1700-1830<br>1700-1830<br>1700-2000  | CARTER VILLARREAL PRICE LL SCIENCE) CARTER KRUSZEWSKI CARTER CARTER LEONARD STAFF  | PSY306 ED108 PSY306 LA308 LA304 LA303 LA304 PSY307 BH204   | CHANGE CHANGE CHANGE CHANGE CHANGE CHANGE CHANGE CHANGE CHANGE DELETE   |
| DEPAR<br>6352<br>6360<br>6362<br>6369<br>6416<br>6432<br>6436<br>6472   | TMENT OF<br>3110-03<br>3110-07<br>3110-08<br>3110-12<br>3324-01<br>3334-01<br>3336-01<br>3501-90<br>3537-01   | (HUSSERL, HEIDDIGGER, MERLEAU- POLITICAL SCIENCE AMERICAN GOVERNMENT (THIS CLASS IS OPEN TO ALL ST AMERICAN GOVERNMENT AMERICAN GOVERNMENT (ESPECIALLY FOR STUDENTS INTE AMERICAN GOVERNMENT SOV AND EASTERN EUR POL WEST POL HERITACE I AMER POLITICAL THOUGHT SEM ADVANCED RESEARCH METHOD   | MMF (DENTS) TI TT RESTED MW TT TT TT THU MON   | 1000-1100<br>0800-0930<br>0930-1100<br>1N FOLITICA<br>1700-1830<br>0930-1100<br>1100-1230<br>1700-1830<br>1900-2200   | CARTER VILLARREAL PRICE LL SCIENCE) CARTER KRUSZEWSKI CARTER CARTER LEONARD  | PSY306 ED108 PSY306 LA308 LA304 LA303 LA304 PSY307   | CHANGE CHANGE CHANGE NEW CHANGE CHANGE CHANGE CHANGE CHANGE   |
| DEPAR<br>6352<br>6360<br>6362<br>6369<br>6416<br>6432<br>6436<br>6472<br>6484   | TMENT OF<br>3110-03<br>3110-08<br>3110-12<br>3324-01<br>3334-01<br>3336-01<br>3501-90<br>3537-01<br>3540-90   | (HUSSERL, HEIDDIGGER, MERLEAU- POLITICAL SCIENCE AMERICAN GOVERNMENT (THIS CLASS IS OPEN TO ALL ST AMERICAN GOVERNMENT AMERICAN GOVERNMENT (ESPECIALLY FOR STUDENTS INTE AMERICAN GOVERNMENT SOV AND EASTERN EUR POL WEST POL HERITACE I AMER POLITICAL THOUGHT SEM ADVANCED RESEARCH METHOD SEMINAR OF CLASSICS FOREIGN POLICY DECISION MAKIN RELIGION  | MWF LDENTS) TI TT RESTED MW TT TT TT THU MON TUE   | 1000-1100<br>0800-0930<br>0930-1100<br>1N POLITICA<br>1700-1830<br>0930-1100<br>1100-1230<br>1700-1830<br>1900-2200<br>1900-2200  | CARTER VILLARREAL PRICE LL SCIENCE) CARTER KRUSZEWSKI CARTER CARTER LEONARD STAFF PRICE  | PSY306 ED108 PSY306 LA308 LA304 LA303 LA304 PSY307 BH204 BH204   | CHANGE CHANGE NEW CHANGE CHANGE CHANGE CHANGE CHANGE CHANGE CHANGE CHANGE   |
| DEPAR<br>6352<br>6360<br>6362<br>6369<br>6416<br>6432<br>6436<br>6472<br>6484   | TMENT OF<br>3110-03<br>3110-08<br>3110-12<br>3324-01<br>3334-01<br>3336-01<br>3501-90<br>3537-01<br>3540-90   | (HUSSERL, HEIDDIGGER, MERLEAU- POLITICAL SCIENCE AMERICAN GOVERNMENT (THIS CLASS IS OPEN TO ALL ST AMERICAN GOVERNMENT AMERICAN GOVERNMENT AMERICAN GOVERNMENT (ESPECIALLY FOR STUDENTS INTE AMERICAN GOVERNMENT SOV AND EASTERN EUR POL WEST POL HERITAGE I AMER POLITICAL THOUGHT SEM ADVANCED RESEARCH METHOD SEMINAR OF CLASSICS FOREIGN POLICY DECISION MAKIN   | MMF (DENTS) TI TT RESTED MW TT TT TT THU MON   | 1000-1100<br>0800-0930<br>0930-1100<br>110 EULTICA<br>1700-1830<br>0930-1100<br>1100-1230<br>1700-1830<br>1700-1830<br>1700-2000  | CARTER VILLARREAL PRICE LL SCIENCE) CARTER KRUSZEWSKI CARTER CARTER LEONARD STAFF PRICE  | PSY306 ED108 PSY306 LA308 LA304 LA303 LA304 PSY307 BH204   | CHANGE CHANGE CHANGE CHANGE CHANGE CHANGE CHANGE CHANGE CHANGE DELETE   |
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to or loss of any other College property. If the charges incurred in any term or semester exceed fifty per cent of the deposit, the student, upon notice from the Business Manager, will be required to restore the deposit to the original amount by paying such charges immediately. Students having charges in excess of the deposit must pay the excess immediately; pending payment, no credit will be allowed on the work of that semester or term, and the student will be ineligible to re-enter the College. Loss and damage items charged against general property deposits shall be credited to the department or other unit in which the loss or damage occurred.

Deposits will be refunded in cash in the Business Manager's Office for two weeks after the close of the session. Checks will be made for those which have not been called for within that time and will be mailed to the home address which the student gave at the time of his registration.

Non-Credit Students.—A student not registered for credit in a course or courses is required to pay the same fees and deposits as a regular student.

Exemption of Ex-Service Men.—Men and women enlisted in the service during the World War, who are citizens of Texas, are exempted from fees, but not from deposits. To secure this exemption, the service record or discharge must be presented to the Business Manager each time the student registers.

Students' Association Fee.—The students' association fee is \$10. Payment of this fee at the beginning of each session is necessary in order that students may receive valuable training in extra-curricular subjects. In addition to the usual athletic and social activities, important training is given with respect to literary activities, publications, dramatics, current events, advanced and special application in science and engineering, etc. At least 50 per cent of the subscription price of the "Prospector," College newspaper, shall be taken from the regular student association fee.

#### HOUSING REGULATIONS FOR STUDENTS

The College of Mines considers it a distinct advantage for all boarding students to live in the dormitories on the college campus. Every attention will be given for the improvement of the social and educational life of those who live on the campus.

The Texas College of Mines and Metallurgy has two very modern and conveniently located residence halls, one for men and one for women. Each of these halls is fireproof in construction, and modernly furnished, and adequate equipment is provided for supplying meals. Facilities also include recreation rooms which provide for a pleasant social life for all resident students.

A room deposit of \$5 is paid in advance in order to make proper room reservation. This deposit is refunded at the close of the semester, provided the student does not withdraw from the dormitory before that period, and provided there is no deduction for breakage. The fee will be returned to those students who can not be accommodated in the college dormitories and to those applicants who cancel their reservations before September 10.

In event any student desires to change his place of residence at the end of the semester, it is required that a notice of ten days be given in order that the room in occupancy may be rented.

Room will be furnished in each of the dormitories at a rate of \$45 per semester. Board is provided at the rate of \$112.50 per semester. Room and board may be paid in monthly installments at the rate of \$35 per month in advance on the 5th, 6th, or 7th of each month. Unless arrangement is made prior to payment date with the Business Director, delinquency in payment will incur a fine of 25c for the first day and 10c for each school day thereafter.

In event students are ill and live in a local hospital for more than three days, all charges for board are remitted. Only room rent is charged.

The management furnishes each student with sheets and pillowcases. The student is requested to furnish blankets, bedspreads, towels, and such other personal linens as may be desired. Since the climate is delightfully mild during the winter months, students will not need more than two or three blankets.

#### OPPORTUNITIES FOR SELF HELP

To a student who is working his way, a city of the size of El Paso offers a large field of opportunity. A students' labor bureau is maintained by the College, and every effort will be made to assist the student, but the College assumes no responsibility execept to the extent of trying to help. No student should enter the College for the first time without funds sufficient for at least the first semester.

#### LOAN FUNDS

The amount of an individual loan which will be granted from Loan Funds administered by the College is limited to the sum of fees and deposits, and repayment is required within the semester or term for which the loan is granted.

Academic Loan Fund—This fund is maintained for academic students who have been in attendance for at least one semester and who have achieved an average grade of 'B' in at least twelve semester hours of work. The fund is administered by a Faculty Committee.

Engineers' Loan Fund.—This loan fund is maintained by the Engineering Department for the benefit of engineering students who have been in attendance at least one year and who meet other special requirements. The fund is administered by the Dean of Engineering.

Ex-Students' Memorial Loan Fund.—Under the will of the late William Clifford Hogg, \$25,000 was granted to the Ex-Students' Association and the College for the establishment of this loan fund. Only the income from the fund may be loaned. It is administered by a board of Directors consisting of the administrative officers of the College and the Ex-Students' Association.

Robert E. Lee Loan Fund.—The Robert E. Lee Chapter, No. 1060, United Daughters of the Confederacy, offers an annual loan of \$150. Applicants must be mining engineering students, must have completed one full year of attendance at the College of Mines and Metallurgy, and must be direct descendants of Confederate soldiers or sallors.

The loan is paid the student as follows: \$50 at the time of the Fall registration and \$12 each month during the school year. The loan is repayable without interest to the Chapter one year after graduation. After the first year following graduation, the loan or the unpaid portion of it will draw three per cent interest.

Spanish-American Loan Fund.—Establishment of and additions to this loan fund are made by residents of the region who are of Spanish decent. Loans are made to students of Spanish descent who are needy and of high scholastic standing. The fund is administered by a Faculty Committee.

Women's Auxiliary Emergency Loan Fund.—This loan fund was established by the Women's Auxiliary for The College of Mines of El Paso. Loans are made to needy students of high scholastic standing. The fund is administered by a Faculty Committee.

#### SCHOLARSHIPS

High School .- The College offers on the following terms and conditions one scholarship annually to the valedictorian, boy or girl, graduating from an accredited secondary school, the honor graduate being certified through the State Department of Education: 1. The school must be located in Texas and must hold at least fifteen units accredited by the State Department of Education, 2. The successful applicant must make the highest record among all the students graduating that calendar year, including winter, spring and summer graduating classes, and must make an average of at least 90 per cent in the senior year. If no member of the class makes an average of 90 in the senior year, no award will be made. 3. Under no circumstances are these scholarships transferable. 4. The financial benefit is exemption from the registration fee of \$50 in the College. 5. The scholarship is valid during the first Long Session after the holder's graduation from high school, and no other, and in no Summer Session. 6. The scholarship must be presented before or at the time the holder registers in the College. Holders failing to do this will pay the registration fee and will not be reimbursed therefor. 7. The conduct of scholarship holders must be satisfactory to the Faculty.

## REGULATIONS AFFECTING STUDENT LIFE

#### STUDENT GUIDANCE

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Special attention is given to students entering college for the first time. A member of the Faculty is assigned to each student as an adviser, so that the student will have a mature friend to whom he may submit his troubles and problems. The adviser earnestly endeavors to know his advisee and to effect an expeditious adjustment of the student to his new environment. In many ways he acts as a representative of the advisee's parents. His aim is to put the student in the way of developing all phases of his personality. The advisory work of members of the Faculty is considered one of their most important functions.

#### PHYSICAL WELFARE

| B. F. JENNESS, M. D Health | Officer   |
|----------------------------|-----------|
| MACK SAXON Associate I     | Professor |
| JULIA I. KANE 1            | nstructor |
| H. B. PHILLIPS I           | nstructor |

Throughout their residence at the College all students are encouraged to develop physically to their best advantage. They are stimulated to participate in systematic exercises and sports.

Under the direction of Dr. B. F. Jenness, Health Officer, an effort is made to guide the physical development and health of all students by examinations, compilation of records, advice, health bulletins, and lectures. The Health Officer also acts as adviser on campus sanitation, and minor medical and surgical treatment of an emergency nature is given in the health office. The Health Officer may examine students in verification of suitable vaccination prior to their admission and require acceptable certificates.

Special attention is given to all freshmen, who are subject to physical examination.

### PHYSICAL TRAINING

Physical training is required of each student with rank below that of Sophomore in the College of Mines and Metallurgy, unless the student has credit for at least one year of physical training. At the discretion of the student's Dean, the physical training requirement may be waived in the case of students over 23 years of age. The exercises prescribed in physical training may be correctional, developmental, or recreational, and, dependent on individual conditions, may vary from absolute rest to strenuous exercise and sports. A student failing to pass the work in any semester will be required to repeat that semester's work. Attendance at lectures in hygiene is required. A fee of \$2.00 per semester is required for every student registering for physical training. The course numbers for women are Physical Training 02 and 012; for men, Physical Training 01. Attendance in physical training exercises is subject to the provisions

under heading Class Attendance and Absences, page 36, with the exception that a student who must be absent from an exercise or exercises due to illness is required to report said case of illness to the Health Officer of the College immediately. Work missed due to illness may be made up, make-up cards to be secured from the instructor. Such absences must be made up within two weeks of return to class by attending one additional class in Physical Training for each absence.

# OFFICIAL NON-ATHLETIC EXTRA-CURRICULAR STUDENT ACTIVITIES

List of Organizations.—Believing that students are greatly benefited by participation in extra-curricular activities, the College sponsors clubs and organizations of various types. Among those now active and officially recognized are the following:

#### General Organizations

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Academic Association

Association for Childhood Education (Student branch)

Co-Ed Association

College Band

College Players, (Dramatics)

Forensic Society, (Debating)

Glee Club

Gold Diggers (Women's Pep Squad)

Independent Women Association International Relations Club

Latin-American Club

M Association (athletics)

Pre-Law Club

Pre-Medic Club

Press Club

Quill Club

Rifle Club Scientific Club

Students' Association (the organization of Student Government)

Women's Athletic Association

#### **Publications**

El Burro (literary)

The Prospector, (Weekly)

The Flowsheet (Annual)

#### Social Organizations

Alpha Chi (Honorary Society)

Alpha Phi Omega Fraternity

Alpha Psi Omega (Dramatics)

Chi Omega Sorority

Delta Delta Delta Sorority
Kappa Sigma Kappa Fraternity
Newman Club (Religious-Social)
Phi Beta Mex Fraternity
Phi Sigma Psi Fraternity
Rho Sigma Phi Fraternity
Sigma Delta Pl Sorority
Zeta Tau Alpha Sorority

General Regulations.—These extra-curricular activities of the non-athletic type are considered of such great importance that they are placed under the supervision of Faculty committees and Faculty sponsors and function under certain regulations for operation and the eligibility of participants. These special regulations are printed annually and are so-easily available to all students that each student is charged with notice and knowledge thereof.

In addition to the foregoing, the officers of each organization are charged with the responsibility of acquainting all of their pledges and members with the rules of procedure for organizations and for social affairs as set up by the Faculty Committee on Student Activities and its sub-committees. These rules may be obtained from the chairman of the committee.

Rules for Participation.—1. The following are the activities to which the rules of participation are to be applied: (a) serving as editor, assistant editor, managing editor, business manager, or assistant manager on any official student publication; (b) membership in any listed organization for which funds are appropriated from Student Association fees, or participation in any local or out of town performance given by, or in the name of these organizations; (c) becoming a candidate for, or serving aspresident, vice-president, secretary, treasurer or manager in any listed organization for which funds are appropriated from Student Association fees; (d) serving as a member of student committees or councils; (e) being a member or serving in an official capacity in any listed organization which obtains no funds from Student Association fees. (Eligibility requirement e of paragraph 2 not applied in this classification.)

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2. The consensus of the Faculty Committee on Student Activities is that participation by students in the various extra-curricular activities is a privilege that is to be earned by maintaining the standards of scholarship and conduct of the College.

On the basis of the foregoing paragraph the following students are eligible for such participation.

- a. Those who are not subject to any phase of disciplinary action.
- Those who are taking twelve or more credit hours of regularcollege work.
- c. Those who, during their last semester in attendance, passed a. minimum of nine credit hours. Two consecutive terms of summer school may be counted as one semester.
- d. Those who are not on Final Trial.
- e. Those who have paid Student Association fees.

3. Eligibility requirements for holding office.

Only those who maintain a "C" average in any twelve credit hours may hold office in any extra-curricular activity. (See Rules for Participation, Sections a and c, for the definition of "office.")

Eligibility at the beginning of a semester holds good throughout the semester unless the student has become ineligible under the above provisions. A student ineligible at the beginning of a semester by reason of the foregoing regulations becomes eligible when the scholastic or disciplinary disability has been removed. First year students are eligible immediately upon entering, provided they are carrying the twelve semester hours of credit work.

#### ATHLETICS

Rules and regulations governing intercollegiate athletics at the College of Mines and Metallurgy are those effective in the Border Intercollegiate Athletic Conference. These rules and additional rules governing freshman participation in athletics are published in a booklet issued by the Border Intercollegiate Athletic Conference.

#### CONDUCT

It is assumed that students come to the College for a serious purpose, and that they will cheerfully conform to such regulations as may be, from time to time, made by the Faculty.

It is the aim of the Faculty so to administer the discipline of the school as to maintain a high standard of integrity and a scrupulous regard for truth. The attempt of any student to present as his own the work of another, or any work which he has not honestly performed, or to pass any examination by improper means, is regarded by the Faculty as a most serious offense, and renders the offender liable to immediate suspension. The aiding and abetting a student in any dishonesty is held to be an equally serious offense.

On examination or quizzes the student is expected. (a) to remain in the examination room until his examination is finished, (b) to refrain from talking, (c) to refrain from bringing notes and books into the examination room.

The possession of any material not allowed by the instructor during an examination is considered prima facie evidence of intention to use such material illegally.

#### DISCIPLINE

General Statement.—1. Through matriculation at the College of Mines and Metallurgy, a student neither loses the rights nor escapes the responsibility of citizenship.

2. Obedience to the law being a primary duty of the citizen, the conviction of the student for violation of law renders him subject also to disciplinary action on the part of the College.

- 3. A jury indictment for a felony or other offense of serious character suspends the student, without prejudice, until acquitted.
- 4. Illegal conduct, such as the drinking of intoxicating liquors, gambling, and dishonesty, renders the student subject to discipline.
- 5. The College, in common with other institutions, has for its orderly and efficient conduct, special regulations additional to the laws of the land. These special regulations are so easily available to all students that each student is charged with notice and knowledge thereof.
- 6. Persons not registered in the College when accused of misconduct that affects college life and work, if former or prospective students, will have the known circumstances inscribed in their record as a presumption against their moral character. They will not be later admitted to the College unless they can prove moral desirability.
- 7. All students are expected to show respect for properly constituted authority and to observe correct standards of conduct. Conduct inconsistent with general good order, or persistent neglect of work, or failure to respond promptly to official notices, may subject the student to discipline.

Students are trusted to conduct themselves properly. If, however, it becomes apparent that any student, by misconduct or by neglect of studies is doing harm to himself, to others, or to the College, the Faculty will use appropriate means of discipline.

The following penalties may be imposed: admonition; probation; suspension of social rights and privileges; suspension of eligibility for official athletic and non-athletic extra-curricular activities; suspension of eligibility for any student office or honor; publication of the name of the offender, his offense, and the penalty imposed; increase in the number of courses required for a degree; cancellation of credit for scholastic work done; suspension from the College; expulsion; or such other penalty as in the opinion of the Faculty Committee on Discipline seems proper.

**Probation.**—Disciplinary probation will be for a definite period and carries with it the following condition during the period of such probation: any further violation of College regulations during the time of probation will cause such student to be suspended for a period to be determined by the Faculty Committee on Discipline.

A student on probation may not hold office in any organization connected with the College, nor represent the College in any of its activities.

A student on probation who absents himself from any class exercise or neglects any class work, except for reasons considered imperative by his Dean, will thereby drop his name from the College rolls for the remainder of the session.

Absences and neglect on the part of such student, not explained to his Dean within one day—beforehand if possible—will be presumed to be without excuse and will effect the dropping above mentioned.

A student on probation may not be initiated into any social or honorary organization.

Suspension from the College.—A student suspended from the College shall remain off the campus of the College during the entire period of his suspension, excepting when summoned by an administrative official of the College, or when an appointment with an official has been previously arranged. A student while under suspension may not room or board in a fraternity or sorority house, dormitory, or rooming house where other students are living. He may not be initiated into an honorary or social organization. A student under suspension may not receive credit at the College of Mines and Metallurgy for college work done, by correspondence or in residence, at either this or any other institution during the period of suspension, except when allowed by the Faculty Committee on Discipline. This privilege shall not be allowed in cases involving cheating.

Expulsion from the College.—A sentence of expulsion means permanent severance from the College. A sentence of expulsion shall be reviewed by the administrative officers, who, when in doubt about its propriety, shall return the case to the trial committee with its reason for so doing.

These penalties may be imposed singly or in any combination upon individuals, or groups, or organizations.

In every case in which a student is found guilty of any offense by the Faculty Committee on Discipline and in any other matter in which an emergency arises, parents or guardians will be informed and asked to cooperate with the authorities.

Debts.—The College is not responsible for debts contracted by individual students or by student organizations, but the College will use all possible measures to force the payment of debts justly and regularly contracted by such persons. The College expects all students and student organizations to conduct themselves honorably in all commercial transactions.

Hazing.—A student who violates his pledge of hazing, or who engages in, instigates, or encourages any type of class rush not specifically approved by the College, will be liable to suspension or expulsion.

Bad Checks.—A student who gives the College a bad check, the fault not being that of the bank, and who does not make it good within five days will be dropped from the College. The College will not accept a check from a student who has once given a bad check.

### **ADMISSION REQUIREMENTS**

Control Over Admission.—Admission to the College is under the control of the Faculty and administered by the Registrar.

#### GENERAL REQUIREMENTS

Sex.—Applicants of both sexes are admitted to all branches of the College on equal terms.

Age.—An applicant must be at least 16 years of age.

Character.—An applicant must furnish satisfactory evidence of good moral character.

Vaccination.—An applicant must present a certificate showing that he has had smallpox or has been successfully vaccinated or that attempts at vaccination have been made recently enough to satisfy the Health Officer.

Hazing Pledge.—The Legislature having forbidden hazing and rushing in State educational institutions under penalty of fine and imprisonment, each applicant is required to sign the following pledge:

"I pledge myself on my honor not to encourage or participate in hazing during my attendance at the College."

#### GENERAL SCHOLARSHIP REQUIREMENTS

Units.—Entrance requirements are stated in terms of units. A unit represents nine months of study in a subject in a secondary school, constituting approximately a quarter of a full year's work. A four-year secondary school curriculum should be regarded as representing not more than sixteen units of work.

Unit Requirements.—For admission fifteen units, with high-school graduation (see "Methods of Obtaining Admission Units"), are required as specified below. World history may not be counted if early or modern European history, either or both, is offered; and biology may not be presented by a student offering either botany or zoology. A student may enter with a condition in any one subject or group, except English, provided he has a total of at least fifteen acceptable units. In no case will more than four units be accepted from Section B.

|            |  | Units |
|------------|--|-------|
| 1.         | English (required of every student)  | 3     |
| 2.         | From the Mathematics Group in Section A below  | 2     |
| 3.         | Two units from each of any two of the three other groups in Section A below (Foreign Language Group, |       |
|            | Natural Science Group, Social Science Group), total  | 4     |
| <b>1</b> , | Additional from any group or groups in Section A   | 2     |
| 5.         | Additional from Section A, or from Section B, or from  |       |
|            | Sections A and B together  | 4     |
|            |  | _     |
|            | Total  | 15    |

### Section A

(The units column shows the number of units that may be offered in each subject.)

| Subject  | Units                    | Subject  | Units                          |
|--|--------------------------|--|--------------------------------|
| English Group English Foreign Language Group Czech French German Greek Latin 2 Spanish | 2-3<br>2-3<br>2-3<br>2-3 | Natural Science Group Biology Botany Chemistry General Science Physics Physiography Physiology and hygiene. Zoology                  | 1 1 1 1 ½ ½ -1                 |
| Mathematics Group Algebra  | 1<br>. ½<br>. ½          | Social Science Group Early European history. Modern European history World history English history American History Civics Economics | y1<br>1<br>½—1<br>.½—1<br>.½—1 |

### Section B

 Quality Provisions.—Quality, however, is more important than quantity. A course thoroughly mastered is worth more than one completed with low or even medium grades. Therefore any applicant ranking in the highest quarter of his graduating class in any fully accredited secondary school and also ranking in the highest quarter of the freshman class in the scholastic aptitude test given by the College in September may enter without admission conditions

Furthermore, any conditional first-year freshman student (but not an "individual approval student") who makes, in the College, in his first long session or its equivalent, at least thirty semester hours with an average grade of C will thereby absolve his admission condition. Otherwise it must be removed as provided under "How to Absolve Admission Conditions."

Advice as to Subjects in High School.—The evidence is strongly in favor of the Group A subjects as giving the best preparation for college. High-school students expecting to go to college are therefore strongly advised to choose as nearly as possible all of their subjects from that group. Certainly those expecting to specialize in foreign languages in college should begin in high school, and those looking forward to college work in the sciences, mathematics, engineering, medicine, business administration, statistics, or law should take at least one and a half years of algebra and one year of plane geometry in high school.

# METHODS OF OBTAINING ADMISSION UNITS

The admission units specified are usually obtained by graduation from an accredited school, or by examination, or by a combination of the two. Limited opportunity is also offered by the University's Extension Teaching Bureau at Austin for units to be made by correspondence study. In addition, a teacher's certificate known as a high-school certificate of the second class yields the holder a few units, depending upon the number of acceptable subjects taken for the certificate.

(1) Graduation from an Accredited School.—No credit may be obtained without graduation. Within the limits of the above list, graduates of schools on the approved list issued by the State Department of Education are credited with the subjects they have completed in which the schools are accredited. In order to determine these units, they are required to present statements of their work made out by the superintendent or principal on the official blank of the College, to be had of the registrar. It is of the highest importance that the applicant send this blank, properly filled out, to the Registrar not later than September 10. Valuable time will be lost if he does not do so, and more if he has to send for it after he arrives. Without it he cannot be admitted at all.

The College has no accredited schools outside Texas, but it will usually accept, for work done in a school in another state, credits granted by the state university of that state; or, in the absence of such an institution, by another institution of recognized standing acquainted with the work of the school in question.

(2) Examination.—Any or all scholarship requirements may be met by passing the admission examinations. To obtain credit in any subject, the applicant must make a grade not lower than D. In grading papers in all subjects, account will be taken of the applicant's use of English. Excellence in one subject will not make up for deficiency in another.

Every natural science examination paper must be accompanied by a laboratory notebook.

Admission examinations are held twice a year, in September and in January.

The fall and winter series are held only at the College and begin on September 5 and January 22, respectively. Requests for full information in regard to these series should be addressed to the Registrar of the College.

It is strongly urged that applicants desiring to enter the College in September attempt the January examinations. It is permitted to divide the subjects between the September and January examination periods, but credits obtained at the January examinations lapse unless the applicant passes the deferred examinations the following fall; and credits obtained at the fall examinations, if less than the total number required, are not valid later.

Junior-Senior High School Graduates.—Applicants who have passed through and graduated from a junior-senior high-school organization in which the usual type of college entrance subjects were not given in the junior school may be admitted on twelve acceptable units completed in the senior high school (the last three grades), including the unit requirements listed under "Unit Requirements," plus three unspecified units from the junior high school.

# ADMISSION BY INDIVIDUAL APPROVAL

At the discretion of the Registrar, an applicant over 21 years old may be admitted without examination. Such admission does not confer special privileges but, on the contrary, puts the applicant under special obligations. Each applicant proceeds as follows:

- 1. He must make application on the official blank (to be had of the Registrar), giving the information there desired.
- 2. He must furnish evidence that he has substantially covered the ground of the units required of other candidates, and that he has sufficient ability and seriousness of purpose to do the work desired with profit to himself and to the satisfaction of the College.
- 3. He must show, by the writing of a composition, that he has an adequate command of English.

Applicants are advised to send their applications and credentials in advance of their coming to El Paso.

Admission by individual approval contemplates applicants who have not recently attended school and therefore could not pass the admission examinations.

Students so admitted may register for courses other than freshman courses only with the approval of the chairman of the department concerned and the Dean, given because of evidence of special fitness. This

approval can rarely be granted, however, because most individual approval students have less preparation than any other students in the College.

Students admitted by individual approval cannot become candidates for degrees until they have satisfied the admission requirements. As to how to remove admission conditions, see the following section.

### HOW TO ABSOLVE ADMISSION CONDITIONS

General .- Admission conditions may be removed (1) by taking, with the approval of the Registrar, the regular admission examination in subjects not studied by the student in the College; (2) by correspondence work (a few courses for this purpose are offered in the University Bureau of Extension Teaching); (3) by counting work done in the College. If the second or third plan is used, the prescribed admission units must be satisfied by work in the corresponding subjects in the College; the elective admission units may be absolved by any College work. For the purpose of satisfying admission conditions, a course of six semesters hours counts as the equivalent of one and one-half units. Courses used to absolve admission requirements will not count also toward a degree. If a student does not satisfy his admission condition within two years after admission to the College, he must present one additional unit (elective) for each year that his condition remains unsatisfied. Conditions may not be removed by taking admission examinations after the student has completed sixty semester hours of college work. They may then be removed only by work done in the College.

Individual Approval Students.—Students admitted by individual approval to English 1 will, on completing that course, be given credit also for three admission units in English. Similarly, students admitted to freshman mathematics will, on completing that course, receive credit also for two admission units in algebra and one in plane geometry. Further, students admitted, without any entrance credit, to the College by individual approval and making during their first long session, or its equivalent, at least thirty semester hours with an average grade of C will in addition absolve the admission condition in the six elective units. If this average is not made, the six elective units (see "Scholarship Requirements") must be made up by one or more of the methods given in the preceding paragraph. The remaining prescribed units must be made up in one or more of the ways explained in the preceding paragraph. The penalties and restrictions of that paragraph also apply to individual approval students.

# STUDENTS FROM OTHER COLLEGES

A student seeking admission from another college must present: (1) a letter of honorable dismissal; (2) a vaccination certificate; (3) an official transcript of his entire college record, including his admission units. Much trouble and time will be saved by sending this official record to the Registrar not later than September 10. Students are not allowed to register until the proper certificates are presented.

Students in other institutions who desire a degree from the College

should not wait until their senior year to transfer. If they do, they may not be able to complete all remaining requirements in one year.

A student who has failed in his work at another institution and is not entitled to continue there will not be admitted to the College. Others who have failed may be refused admission, or may be admitted on "special observation" or "final trial" or on any other condition that may seem desirable.

In as much as students taking all their work in the College must have a C average for a degree, only such work completed in another institution as altogether averages the equivalent of our grade of C will be accepted here

An applicant who has attended another collegiate institution is not at liberty to disregard his collegiate record and apply for admission to the College on the basis of his high-school record, but is subject without exception to the regulations given above.

All credits given students from other colleges are conditional. If their work here is of low grade, the amount of credit given to individual students may be reduced.

### MINING AND METALLURGY

The unit requirements for admission to Engineering are as follows:

| Subject Un   | its |
|--|-----|
| 1. English 3   |     |
| 2. Mathematics   |     |
| Algebra1½ Plane Geometry1 Solid Geometry½  | \$  |
| 3. Two units from each of any two of the three other groups in Section A (Foreign Language Group, Nat- |     |
| ural Science Group, Social Science Group) total 4  |     |
| 4. Additional from any group or groups in Section A 1  |     |
| 5. Additional from Section A, or from Section B, or from   |     |
| Sections A and B together 4  |     |
| Total  |     |

Under 5 above, as many as two units each may be offered in drawing and manual training.

All other provisions with reference to admission to the College apply also to admission to Mining and Metallurgy, except that neither the English nor the mathematics requirement may be absolved under "Quality Provisions."

### SCHOLASTIC REGULATIONS

### REGISTRATION

For the Long Session of 1940-1941 the registration days are as follows: First semester: September 11-12, Wednesday-Thursday.

Second semester: January 24-27, Friday-Monday, registration of new students.

January 29, Wednesday, registration of readmission students,

Late Registration.—Students are urged to register during the first days set aside for registration. Late registration necessarily handlcaps the student because of his missing classes. The difficulty in scheduling classes due to closed sections may give the student an undestrable schedule which might have been avoided if early registration had been made. Several days have been set aside for late registration, chiefly to benefit those students who, for some reason, cannot register at the beginning. It is a distinct advantage to register as early as possible.

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Non-Credit Students.—Permission to attend a course or courses without credit is sometimes granted. A student not registered for credit in the College is required to pay the same fees and deposits as a regular student.

Attendance by a registered undergraduate as a visitor in a course is allowed only with the approval of his Dean and under special restrictions. The payment of regular fees and deposits is required.

### EXPLANATION OF COURSES

Definitions.—The unit of measure for credit purposes is the semester hour, which means one hour of recitation (or the equivalent in shop or laboratory work) per week for one semester of eighteen weeks, unless otherwise specified. For each classroom hour two hours of preparation are expected. Three hours of shop or laboratory work are counted equivalent to one classroom hour and the preparation for it.

Most courses meet three hours a week, having a credit value of three hours for one semester, or six hours for both semesters.

Notation.—Courses are designated by numbers which indicate both rank and credit value in semester hours, and by letters which indicate the part of a course referred to or the semester or term in which it is given.

Rank and Credit Value.—A number between 200 and 299 indicates a value of two semester hours, one between 300 and 399 a value of three semester hours, etc., except that when the value is six semester hours the numbers between 0 and 99 are used, instead of the numbers between 600 and 699. The two digits on the right indicate the rank of the course; if between 0 and 9 the course is of freshman rank; if between 10 and 19, of sophomore rank; if between 20 and 59, of junior rank; if between 60 and 79, of senior rank.

A student may not receive credit in one department for two courses whose numbers have the same right-hand digits—for example, Physics 12 and Physics 812.

No courses will be given which carry only one semester hour of credit.

Certain beginning or freshman courses are not numbered, but are marked A and have a value of six semester hours.

Courses of junior or senior rank are referred to as advanced courses.

Use of Letters.—The lower-case letters f (first semester), s (second semester), following a course number show the semester of the long session in which the course is given. The notation fs indicates that the course is given in the first semester and repeated in the second semester. A course not so designated runs throughout the long session and in such a case the lower-case letter a means the first half of such a course, the letter b the second half. For example, Chemistry 422 is a course running through the entire long session and carrying four semester hours of credit and English 1 as is the first half of English 1 (freshman English) given in the second semester and carrying three semester hours of credit, which, however, can not be counted for graduation until English 1b, the second half of English 1, has been completed.

### AMOUNT OF WORK

Engineering Students.—Freshmen may not register for more than eighteen semester hours for each semester. Sophomores, juniors, and seniors may not register for hours in excess of those prescribed in the course of study except in accordance with the grade point rule (252 grade points during their preceding semester), and in no case whatever may they register for more than twenty-one semester hours.

Other Students.—The normal load for beginning freshmen is fifteen hours Unusual circumstances sometimes make it necessary for a student's program to include sixteen or seventeen hours. A maximum of eighteen hours may be taken only with the consent of the Dean.

After the first semester or summer session at the College, students may not register for more than fifteen hours per week unless during the preceding semester they have made a score of 252 grade points, or 202 points during the preceding summer semester. Students may not register for more than eighteen hours per week unless the score has been 297 points for the preceding semester, or 234 points in the preceding summer session.

In no case may a student register for more than twenty-one semester hours per week.

# ADDING AND DROPPING COURSES

After his registration for the session a student may add a course only with the approval of his Dean. No course may be added, however, after the dates specified in the Calendar.

For weighty cause, a student may drop a course with the consent of his Dean.

On the recommendation of the instructor concerned, approved by his Dean, a student may at any time be required to drop a course because of neglect or for lack of preparation.

A student in attendance during the long session shall not be permitted

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to drop a course within 30 days of the beginning of the final examinations for that semester.

### CLASS ATTENDANCE AND ABSENCES

Absence from Class.—Uniform and punctual attendance upon all exercises at which the student is due is strictly required. Absences will be considered as non-performance of work.

When the number of absences exceeds one-eighth of the total number of exercises in any subject during a semester, the student concerned will be reported to his Dean who may exclude him from further participation in all classes, or who may give him special permission to continue.

A student excluded from classes for excessive absences in any subject will immediately lose all absence privileges in all subjects for the remainder of the semester, and will thereafter be subject to immediate and final dropping from the rolls of the College for further absences. Students on Special Observation or Final Trial will be given no absence privileges.

Absences incurred by a student while acting as an authorized representative of the College will receive special consideration from the Administration,

In the interest of the public health, every student is required to report promptly to his Dean all absences due to illness of any kind.

A student is held responsible for absences incurred because of late registration.

Absence from Quiz.—A student absent from an intra-semester examination or quiz is graded zero on that quiz, unless for urgent reason he is given by the instructor the privilege of taking a postponed examination at a time to be set by the latter.

Tardiness.—Serious or repeated tardiness will be considered as equivalent to absence, and reported as such.

## OFFICIAL BULLETIN BOARDS

Official bulletin boards are maintained in the several buildings and departments. These are used principally for posting official notices of changes of regulations, class meetings, special official meetings, etc., as found necessary by the Regents and Faculty. Such notices have the full official force and effect. Students are held responsible for knowledge of and compliance with such notices.

### EXAMINATIONS

Semester Examinations.—The Faculty has ruled that exemptions from examinations may not be given. To encourage preparation for examinations, the Faculty has further ruled that during the last seven days of each semester before examinations no written examination or review shall be given; and all essays, theses, synopses, and the like must be handed in before this period begins.

In all examinations, account is taken of the student's use of English and

of the form of the paper in general, the grade being lowered because of deficiencies in these regards as well as in the subject-matter proper.

Absence from Semester Examinations.—A student who is compelled to be absent from a semester examination on account of sickness or other imperative cause should petition his Dean, beforehand if possible, for permission to postpone the examination. In cases of illness the petition must have the approval of the Health Officer. Fellowing permission for postponement from his Dean, the student should also secure from him permission to take the postponed examination either at the next regular examination in the subject, or in any event, not later than twelve months after the examination was postponed, and should file notice thereof with the Registrar not later than seven days before the beginning of the examination period concerned.

A student absent from a semester examination without his Dean's excuse is graded F and required to take the semester's work over again if he desires credit for it.

Postponed and Removal-of-Condition Examinations.—Postponed and removal-of-condition examinations are held at regular dates fixed by the Calendar. A student may take one at another time only at a regular examination in a course and then only with the permission of his Dean. In any event, he must file an application for examination with the Registrar on or before the seventh day preceding the first day of the examination period.

A student who takes and fails to pass a removal-of-condition examination will be given a grade of F in the course. Absence from one of these examinations, after permission has been granted, will have the same effect as a failure, unless the student presents a satisfactory excuse to his Dean within a week after the date of the examination.

Advanced Standing Examinations.—Applications for advanced standing examinations must be approved by the chairman of the department, by the student's Dean, and filed with the Registrar at least seven days before the examination period as fixed by the Calendar. Credit has rarely been given for courses by examination, and will be given still more rarely in the future. In fact, advanced standing examinations for other than courses corresponding to admission credits will be allowed only in very exceptional cases, and it may be expected that they will be searching in character, that in length they will extend to four hours for each semester covered, and that the papers will be graded with great strictness.

In order to pass an advanced standing examination a grade of at least  ${\bf B}$  must be secured.

# GRADES OF SCHOLARSHIP

Grades.—The standing of the student in his work is expressed by grades made up from class work and from examinations. There are six grades: A (excellent), B (good), O (fair), D (low pass), E (tailure, but with privileges of petitioning to continue the course and to take removal-of-condition exam-

ination), F (bad failure, and, if a semester grade, without further current privileges in the course).

To pass in a course, it is necessary to secure a grade of at least **D** both on class work and on semester examination, considered separately. Grades are given by semester; however, in a course extending through two semesters no credit is given until both semesters of the course have been completed.

Effect of a Semester Grade of E.—A student who fails to pass in a course but makes a grade of E is called "conditioned," and is allowed opportunity to remove the condition by a second examination at the next regular examination period in that subject, at the discretion of his Dean, but in any event he must take the condition examination not later than twelve months after the condition was received. A condition successfully removed becomes D.

In a subject continuing beyond one semester, the instructor may, by sending to the Registrar the proper credit notice, raise an  $\mathbf E$  of an earlier semester to  $\mathbf D$  because of a grade of  $\mathbf C$  or better done in a later semester, but no grade may be altered after the registration period of the next succeeding semester.

Higher Work after Failure.—If a student makes an F in a course, he may not take up a higher course in the same subject until the course is taken again. If a student makes an E in a course, he may take up a higher course in the same subject only with the written consent of the instructor concerned, approved by his Dean.

Uncompleted Work.—The Grade of Incomplete: The grade of Incomplete may be obtained by three distinct and separate methods:

- 1. At any intra-semester grade period, if the student has not completed his work for any particular course, the instructor may give a grade of Incomplete in the course.
- 2. At the end of any semester a student may be given a grade of Incomplete if he unavoidably is absent from the semester final examination in a course, and such absence is approved by the respective Dean. This procedure obligates the student to take a Postponed examination in the course as part of the removal-of-incomplete grade.
- 3. At the end of a semester a grade of Incomplete may be given in exceptional circumstances and with the permission of the instructor and the proper Dean. When the grade of Incomplete is given at the end of the first semester, the work missed must be completed before grades are reported at the end of the second semester. If the Incomplete is given at the end of second semester, it must be removed before grades are recorded for the fall semester following.

When the student is given the grade of Incomplete, grade points for the course will be considered as if the grade were "F" in calculating the standing of the student.

A student on Special Observation whose score cannot be determined because of grades of Incomplete will be placed on Final Trial; and a student on Final Trial whose score cannot be determined because of grades of Incomplete will be dropped from the rolls of the College.

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When a student is late or dilatory in handing in any required work of any nature, his instructor may give him, depending on the circumstances, a lowered grade, or even zero, on the late performance in question.

A student who has not completed the required volume of work in a course at the end of a semester will receive a grade within the calculation of which will be included various uncompleted pieces of work rated at zero. When such final semester grade results in an E the instructor and respective Dean may require the student to complete the missing work as part of his removal-of-condition obligation.

Repetition of Course.—If a student repeats a course, his official grade is the last one made.

### REPORTS

Intra-Semester Reports.—On November 12 and March 24 reports are due on all students making a grade of **D** or below from instructors to the Registrar, who will then issue notices to parents or guardians of students doing work below the passing grade (**D**). Grades reported at intra-semester periods represent the average grade to date in the given course.

Semester Reports.—Reports are sent out to parents and guardians at the end of each semester for all students. Self-supporting students over 21 years of age, if they request it of the Registrar in writing, may have their reports sent to them instead of to their parents.

### HONORS

At the end of each semester, the Registrar will publish an honor roll. To be eligible for this honor roll, a student must be registered for not less than 15 semester credit hours, pass all work taken, and attain an average of 18 grade points per semester hour in all work taken for credit during the semester. The grade point system shall be used in determining the average number of points per semester hour attained by the student.

Furthermore, if a student graduates from the College of Mines and Metallurgy and has six times, or more, attained the semester honor rolls, his or her name shall appear in the catalogue as part of a permanent honor roll.

### CLASSIFICATION OF STUDENTS

Students are classified as regular and irregular. Under Regular Students are grouped those taking twelve or more semester hours of work prescribed for a degree. Under Irregular Students are grouped those taking less than twelve semester hours.

They are further classified as first-year, second-year, and uppper division students, dependent on their time of residence at a college or university. A first-year student is one who has resided not more than two semesters; a second year student is one who has resided two semesters and not more than four semesters; upper division students are those who have resided

more than four semesters. A term of the summer session is equal to one half semester.

Engineering Students.—Until the completion of thirty semester hours of prescribed work in addition to the full admission requirements, engineering students are freshmen; then, until sixty-six semester hours are completed, suphomores; then, until one hundred and four semester hours are completed, juniors; then, seniors until graduation.

Other Students.—Until the completion of thirty semester hours in addition to the full admission requirements, a student is classified as a freshman; then, until sixty semester hours are completed, a sophomore; then, until ninety semester hours are completed, a junior; then, a senior until graduation.

### STANDARD OF WORK REQUIRED

Definitions.—The grades given are defined under "Grades of Scholarship." A course with one classroom hour for two semesters when passed implies a credit of two semester hours; a course with three classroom hours, for one semester carries a credit of three semester hours, and so on. But in the preceding cases it is also expected that the student will spend two hours of preparation for each classroom hour. In general, when the sum of the clock hours spent in lecture, recitation, laboratory and preparation is divided by three, the result will be approximately the semester hours of credit for the course.

In scoring, grades will count as follows: A, 21 points per semester hour; B, 18 points: C.:15 points; D, 12 points; E, 6 points; F, 0; Inc., 0. Zero (0) courses are not counted in scoring.

Required Minimum.—To avoid Special Observation, Final Trial, or being dropped from the rolls of the College for scholastic undesirability, the student must meet the following standard of work at the intra-semester and semester report periods.

Students taking less than twelve semester hours must pass in all the work taken and must make a grade point average per semester hour not less than that required of other students of the same length of attendance.

First-year students taking twelve or more semester hours must make a score of either 108 points in twelve semester hours, or 126 points in nine semester hours.

Second year students taking twelve or more semester hours must make a score of 126 points in twelve semester hours.

Upper division students taking twelve or more semester hours must make a score of 144 points in twelve semester hours.

In interpreting this section, a student taking twelve or more credit hours with an included course of four or more credit hours shall not be placed on Special Observation or Final Trial, or be dropped from the rolls for scholastic reasons if he makes, in the courses taken, not less than the following grade point count: 117 points for first-year students, 135 points for second-year students, or 162 points for upper division students, provided he does not have a grade of F in more than one course.

Conferences.—The Deans of the Divisions of Arts and Sciences and Engineering will confer with all students in the College who are doing unsatisfactory work, both at the intra-semester dates and at the end of the semester. The object of these conferences will be to advise the student for his improvement, to offer him opportunity for renewed effort with such assistance as parents and instructors may be able to furnish, and to encourage or to warn him as the case may demand. First-year students also have the opportunity of conferring with Faculty Advisers.

Fallures.—The College has prescribed a certain minimum of work which a student must pass at the intra-semester dates and at the end of the semester or be dropped from the College. (See "Required Minimum of Work" rule.) Before a student is dropped from the College for failure in work he will be given two trials or chances, called respectively "Special Observation" and "Final Trial." This will not apply to a student who fails in all his courses. In such case, if the failure occurs at the end of a semester, the student must withdraw until he satisfies the requirements of "Return After Failure."

Special Observation.—The first failure of a student to pass in the required minimum of work will place such a student under Special Observation, which is a first warning to both student and parent or guardian of unsatisfactory work.

Failure to pass in the required minimum of work at any time after the first day of Special Observation puts the student on Final Trial. Sometimes the first failure is so serious that the parents are advised to withdraw the student at once from the College. Immediate withdrawal after serious failure often enables him to make other arrangements for his education without loss of time. A student on Special Observation whose score cannot be determined because of postponed (Inc.) grades is put on Final Trial.

Final Trial.—A student on Special Observation who withdraws from the College before the end of the semester and who re-enters within four semesters is put on Final Trial. A student on Special Observation whose score cannot be determined because of postported or incomplete grades will be put on Final Trial. A student on Special Observation who fails to pass in the required minimum of work is put on Final Trial. This is a last and final warning to student and parent. Final Trial will last for a consecutive period of enrollment equivalent to two semesters, after which the student will be restored to good scholastic standing. A student on Final Trial who fails in the required minimum of work will be dropped from the College. A student on Final Trial who withdraws from the College may not register again before the beginning of the corresponding semester in the next long session unless he shall remove his deficiencies in an intervening summer session as prescribed hereafter.

A student on Final Trial whose score can not be determined because of postponed (Inc.) grades will be dropped from the rolls of the College.

Restoration to Good Standing.—A student who has been placed on Special Observation or Final Trial will be restored to good standing at the end

of any semester in the long session in which he makes a C average in at least twelve semester hours. If he be registered for less than twelve but for nine or more semester hours, he must pass all work taken with a grade of C or bettter and in addition must make at least 171 grade points.

Class Attendance.—The College expects, and has a right to expect, that a student on Special Observation or Final Trial will attend classes with unfailing regularity, will be very punctual in reports and other written work, and will make every effort to show marked improvement in his courses. A failing student unwilling to put forth every effort to keep up with his classes should be withdrawn from the College.

In case of illness or any other imperative reason for absence, such a student should file a written explanation of each absence with the Registrar to be entered upon his record card.

Return after Failure.—A student who has withdrawn while on Special's Observation or Final Trial, or who has been dropped, may register subsequently in good scholastic standing only if he has remained continuously out of school as long as four semesters of the long session.

A student on Final Trial who withdraws during the first semester or who is dropped by reason of failure during or at the end of the first semester may register again not earlier than the next summer session. If he attends the summer session he may register as on Special Observation at the beginning of the next long session provided he makes for the summer session scores of 144 points in twelve semester hours if a first year student, or 162 points in twelve semester hours if a second year student, and of 180 points in twelve semester hours in other cases. If he does not attend the summer session, or if he attends the summer session and makes less than the foregoing scores, he may register as on Final Trial at the beginning of the long session.

A student on Final Trial who withdraws during the second semester or who is dropped by reason of failure during or at the end of the second semester may not register earlier than the second semester of the next long session unless he attends the intervening summer session and makes scores of 144 points in twelve semester hours if a first-year student, of 162 points in twelve semester hours if a second-year student, and of 180 points in twelve semester hours in other cases. Should he make such a record he may register as on Final Trial at the beginning of the next long session. Should his record exceed the foregoing by 12 respective points he may register on Special Observation. Otherwise he may register not earlier than the beginning of the succeeding second semester and then only on Final Trial.

A student who is on Final Trial at the end of a second semester may register as on Special Observation at the beginning of the next long session if he attends the intervening summer session and makes, in the work of the second semester and the summer session combined, a score of 195-points in fifteen semester hours if a first-year student, of 210 points in fifteen semester hours if a second-year student, and of 225 points in fifteen semester hours in other cases.

A student who is on Special Observation at the end of a second semester

may register in good scholastic standing at the beginning of the next long session if he attends the intervening summer session and makes, in the work of the second semester and the summer session combined, a score of 144 points in fifteen semester hours if a first-year student, of 162 points in fifteen semester hours if a second-year student and 180 points in fifteen semester hours in other cases.

A student shall not receive credit for work done at another institution during a time when he was ineligible to attend the College of Mines and Metallurgy, nor will the College admit a student from another institution who is ineligible to continue there.

The foregoing requirements and the rules governing Special Observation and Final Trial apply to all students, and the Deans are without discretion except in the case of mature students over 25 years of age.

## REQUIREMENTS FOR DEGREES AND CERTIFICATES

# STUDY OF CONSTITUTIONS OF UNITED STATES AND TEXAS REQUIRED

The Forty-Fifth Legislature enacted a law requiring all students entering tax supported educational institutions after September 1, 1937, to secure six semester hours of credit in Federal and Texas Constitutions before being awarded degrees or teachers' certificates. The completion of Government 10 satisfies the requirements of this law.

The Forty-first Legislature required three semester hours of credit in. Government for students entering tax supported institutions before September 1, 1937. The completion of Government 310 satisfies the requirements of this law.

### ENGINEER OF MINES

The degree of Engineer of Mines may be conferred upon graduates of the College of Mines and Metallurgy who attended a college prior to September 1, 1931, and who have received the degree of Bachelor of Science in Mining Engineering and who have completed at least two years of successful professional work in mining or metallurgy, subsequent to receiving the bachelor's degree, upon the presentation and acceptance of a satisfactory thesis.

### BACHELOR OF SCIENCE IN MINING ENGINEERING

The completion of one of the following four-year curricula and the satisfaction of other general requirements lead to the degree of bachelor of Science in Mining Engineering. If a student makes an average grade of less than twelve grade points when first taking the courses set forth in the first three semesters of any one of these curricula he will be considered as lacking in aptitude for the degree, and he and his parents or guardians will be advised that he cannot be allowed to continue. He may be permitted to register for other majors of study.

Each student anticipating a degree of Bachelor of Science in Mining Engineering in either the Mining, the Metallurgy, or the Mining Geology option must spend at least one summer in practical work related to the degree desired and must furnish satisfactory evidence to the proper authorities of a summer so spent.

# First Year

| First Semester    | Sem. Hrs.<br>Credit |                   | m, Hre.<br>redit |
|-------------------|---------------------|-------------------|------------------|
| Chemistry 801a    | 4                   | Chemistry 801b    | 4                |
| Drawing 301       | 3                   | Drawing 302       | . 3              |
| English Ia        | 3                   | English 1b        | . 3              |
| Geology 1a        | 3                   | Geology 1b        | . 3              |
| Mathematics 803a  | 4                   | Mathematics 803b  | . 4              |
| Physical Training |                     | Physical Training | • •              |
|                   |                     |                   |                  |
|                   | 17                  |                   | 17               |

### Second Year

| First Semester | Sem. Hrs.<br>Credit | Second Semester   | Sem. Hrs.<br>Credit |
|----------------|---------------------|---|---------------------|
| Chemistry 311  | 3<br>3<br>3         | Chemistry 413 Engineering 313 Mining 310 Geology 217 Mathematics 13b Physics 812b | 3<br>2<br>3         |
| SUMMER WORK: E | • -                 | Eight hours a day for fo  |                     |

# Third Year

# Mining Option

| First Semester   | Sem. Hrs.<br>Credit | Second Semester  | Sem. Hrs.<br>Credit |
|--|---------------------|--|---------------------|
| Chemistry 323 Engineering 832a Geology 321 Mathematics 325 Metallurgy 321 Mining 321 | 4<br>3<br>8         | Chemistry 324 Engineering 832b Geology 322 Physics 221 Metallurgy 423 Mining 322 | 4<br>8<br>2         |
| SUMMER WORK:   | 19<br>Mining 224:   | Eight hours a day for t  | 19<br>:wo           |

# Metallurgy Option

| First Semester   | Sem. Hrs.   |                  | n, Hrs.<br>redit |
|------------------|-------------|------------------|------------------|
|                  | Credit      | C                | rear             |
| Chemistry 323    | 3           | Chemistry 324    | 3                |
| Chemistry 325    | 3           | Chemistry 326    | 3                |
| Engineering 832a | 4{          | Engineering 832b | 4                |
| Mathematics 325  | 3           | Physics 222      | 2                |
| Metallurgy 321   | , , . 3     | Metallurgy 423   | 4                |
| Mining 321       | 3           | Geology 322      | 3                |
|                  | <del></del> |                  |                  |
|                  | 19          |                  | 19               |

# Mining Geology Option

| First Semester   | Sem. Hrs.<br>Credit | Second Semester         | Sem.Hrs.<br>Credit |
|------------------|---------------------|-------------------------|--------------------|
| Chemistry 323    |                     | Chemistry 324           | 3                  |
| Engineering 832a | 4                   | Engineering 832b        | 4                  |
| Geology 321      | 3                   | Geology 322             | 3                  |
| Mathematics 325  | 8                   | Geology 427 or 423      | 4                  |
| Metallurgy 321   | 3                   | Physics 222             | 2                  |
| Mining 321       | 3                   | Mining 322              | 3                  |
|                  | _                   |                         | _                  |
|                  | 19                  |                         | 19                 |
| SUMMER WORK:     |                     | Eight hours a day for t | _                  |

# Fourth Year

# Mining Option

| First Semester  | Sem. Hrs.<br>Credit |                          | m. Hrs.<br>Credit |
|-----------------|---------------------|--------------------------|-------------------|
| Engineering 350 | 8                   | Engineering 354          | . 3               |
| Geology 264     | 2                   | Engineering 431          |                   |
| Government 10a  | 3                   | Government 10b           | . 3               |
| Mining 367      | 3                   | Mining 269               | . 2               |
| Metallurgy 261  | 2                   | Mining 231               | . 2               |
| Economics 312   | 8                   | Mining 261               | . 2               |
| Mining 260      | 2                   | Mining 262               | . 2               |
|                 |                     | Mining 074 (Senior Trip) |                   |
|                 | 18                  | •                        | _                 |
| -               |                     |                          | 18                |

# Metallurgy Option

|                 | Credit    | 200112                 | . Hrs. |
|-----------------|-----------|------------------------|--------|
| First Semester  | Sem. Hrs. | Cı                     | redit  |
| Engineering 350 | 3         | Engineering 431        | 4      |
| Government 10a  | 3         | Government 10b         | 3      |
| Metallurgy 362  | 3         | Metallurgy 364         | 3      |
| Metallurgy 361  | 3         | Metallurgy 473         | 4      |
| Mining 367      | 3         | Economics 312          | 3      |
| Metallurgy 263  | 2         | Mining 269             | 2      |
| Metallurgy 265  | 2         | Metallurgy 074 (Senior |        |
|                 |           | Trip)                  | 0      |
|                 | 19        |                        |        |
|                 |           |                        | 19     |

### Mining Geology Option

| First Semester | Sem, Hra.<br>Credit | 200000              | ı. Hrs.<br>redit |
|----------------|---------------------|---------------------|------------------|
| Economics 312  | 3                   | Engineering 354     | 3                |
| Government 10a | 3                   | Governmemnt 10b     | 3                |
| Geology 264    | 2                   | Geology 463 or 427  | 4                |
| Geology 418    |                     | Geology 361         | 3                |
| Elective '     | 3                   | Mining 269          | 2                |
| Mining 367     | 3                   | Elective            | 3                |
|                |                     | Geology 074 (Senlor |                  |
| •              | -                   | Trip                | 0                |
|                | 18                  |                     |                  |
|                |                     |                     | 18               |

# GRADUATE COURSES

Through a special arrangement with the Graduate School of the University of Texas, provision is made for graduate credit in certain departments. Students are advised to secure further information from the Registrar.

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# BACHELOR OF ARTS

General Provisions.—No degree will be conferred except publicly and at Commencements.

All candidates are expected to attend in person the Commencement at which their degree is to be conferred unless absent for good cause, in which case they will petition the Registrar at least one week in advance, giving the reason for their absence.

No degree will be conferred without a residence of at least two long session semesters, or five summer session terms, or one long session semester and two summer session terms or an equivalent.

At least thirty semester hours of work counting toward the degree must be completed in residence.

At least twenty-four of the last thirty semester hours offered must be taken in the College.

At least six semester hours in advance courses in the major subject must be completed in residence.

Not more than thirty semester hours of credit offered for a degree shall have been secured from other institutions by extension, correspondence, or both.

A student registering either for the first time or in a later year may obtain a degree according to the requirements of the catalogue then in force, subject, however, to the restriction that all the requirements for a degree must be completed within six years of the date of the catalogue chosen.

If any semester of a freshman course, taken to meet the requirements under Course Outlines, is finished after ninety semester hours have been completed, that semester of the course will not count toward the required minimum of 120 semester hours. If any other course of freshman rank is finished after ninety semester hours have been completed, it will count for only two-thirds of its normal value. If a condition in a course of freshman rank is removed during the session of graduation, that course will-count for only two-thirds of its normal value. A condition, made by a candidate in the last semester of his session of graduation, may not be removed until the succeeding time for removal of conditions.

Special Provisions.—Upon completion of sixty semester hours of work, including the courses specified for the first and second years in the outline for one of the various majors, the student must petition the Faculty through the Registrar for permission to become a candidate for a degree. This petition will not be accepted unless the average grade of such work completed is O or better and all admission requirements have been satisfied.

Upon completion of ninety semester hours of work as set forth in the outline for the chosen major, the student will again petition the Faculty through the Registrar for permission to continue his candidacy for a degree. This petition will not be accepted unless the average grade of such work completed is O or better and all admission requirements have been satisfied.

The student must make an average of at least fifteen points per semester hour in the courses taken at the College which are required and counted toward the degree, an A grade on a semester hour counting as 21 points; a B grade as 18 points; a C as 15 points; a D as 12 points; an E, an F, or an Inc., as zero. The Faculty reserves the right to demand grades of O or better in certain courses when they are important as prerequisites or as parts of majors or minors.

A student majoring in a department which requires a major examination must pass a general four-hour written examination in his major subject on the date fixed in the Calendar next preceding the completion of the work required for the degree. At the discretion of the department concerned, one hour of oral examination may be substituted for one hour of the written examination. The chairman of the department in which the major is taken fixes the place of the examination and supervises the giving of it. In setting this examination, the Faculty of the department will take into account the particular courses elected by the student, but will expect a more mature and comprehensive knowledge than is required in the regular semester examinations.

A student who fails to pass the major examination may take the examination on the next date provided in the Calendar for such examinations, but in no case will a special examination be given.

A study of the Constitutions of the United States and of Texas is required by law.

Concentrations.—Major and minor fields of concentration must be chosen from the following groups in accordance with the limitations indicated:

### Group A

Major: Biological Sciences, \*\*Chemistry, Geology, \*\*Mathematics,

\*\*Physics.

\*Minor: Biological Science, \*\*Chemistry, Geology, \*\*Mathematics

Physics.

### Group B

Major: Business Administration, Economics, Education, (two minors required), English, French, History, Music, Spanish.

Minor: Biological Sciences, Business Administration, Chemistry, Economics, Education, English, French Geology, Government, History, Journalism, Music, Mathematics, Psychology, Physics, Public Speaking, Sociology, Spanish.

Course Requirements.—In order to secure a Bechelor of Arts degree, the following minimum course requirements must be met:

<sup>\*</sup>A different minor may be chosen only with the permission of the head of the major department and the approval of the Dean.

<sup>•</sup> Mathematics 803 required for majors in Chemistry, Mathematics, and Physics; and for minors in Mathematics and Physics. Chemistry 801 is required for majors and minors in Chemistry.

### 50 COLLEGE OF MINES AND METALLURGY

- 1. Not less than twenty-four semester hours, at least twelve of which must be advanced courses, in a major subject chosen from one of the major groups listed under "Concentrations."
- 2. Not less than eighteen semester hours, at least six of which must be of advanced courses, in another subject chosen as a minor (exception-Education, for which two minors are required), in accordance with the limitations indicated in the concentration groups.
  - 3. Twelve semester hours in English (English 1 and 12).
- 4. Completion of Course 12 in one foreign language, either modern or ancient.
- 5. Six semester hours in each of any of the natural (laboratory) \*sciences.
- 6. Six semester hours in Mathematics or numbered courses of Latin or German or Greek. Any hours in numbered courses of Latin or German or Greek offered in satisfaction of the Mathematics requirement may not be used to satisfy Requirement 4 or as a part of a major or minor.
- 7. †Six semester hours in American and Texas Government (Government 10).
  - 8. Three semester hours in philosophy or psychology.
- 9. Six semester hours in \*\*social science in addition to requirements 7 and 8.
- 10. Not less than a total of thirty semester hours of ‡advanced courses and not more than a total of sixty-six semester hours in the major and minor subjects.
- 11. Enough other courses to make at least one hundred and twenty semester hours.
- 12. Physical Training without credit as prescribed in the Freshman vear.

Order and Choice of Courses.-Students are urged to follow the arrangements of courses by years as suggested below with such minor variations as may be necessary because of special departmental requirements as shown under "Course Outlines,"

<sup>\*</sup>Botany, biology, chemistry, geology, zoology.
†For students enrolling after September 1, 1937; for students enrolling prior to September 1, 1937, Government 310 is required.

<sup>\*\*</sup>Economics, government, history, philosophy, psychology, sociology. \$\footnote{\text{Students}}\$ taking Chemistry 801, 311, and 413 may count the last three semester hours as advanced; those taking Mathematics 803 and 13 may count the semester hours in excess of the first twelve as advanced.

Freshman Year.—English 1; foreign language 1; science, six semester hours; mathematics, six semester hours; elective or major subject, six semester hours; physical training, no credit.

Sophomore Year.—English 12; foreign language 12; another science, six semester hours; major subject, six semester hours; minor subject, six semester hours,

Junior Year.—The student's course program must be approved by the head of his major department and should include: Government 10; philosophy or psychology, three semester hours; major subject (advanced), six semester hours; minor subject, six semester hours; elective (advanced), six semester hours; elective, three semester hours.

Senior Year.—The student's course program must be approved by the dean and should include: major subject (advanced), six semester hours; minor subject (advanced), six semester hours; elective (advanced), six semester hours; elective (not Freshman subjects), twelve semester hours.

Course Outlines.—A student should choose his major subject as early as possible. He must then pursue it in accordance with the outline provided for that subject.

# BUSINESS ADMINISTRATION MAJOR

|     | Ho  | urs |
|-----|---|-----|
| 1.  | Business Administration 311, 314, 432, 420, and ten addi-     |     |
|     | tional semester hours of business administration, at least    |     |
|     | four of which must be advanced                                | 24  |
| 2.  | Minor subject, eighteen semester hours, six of which must     |     |
|     | be advanced   | 18  |
| 3.  | English 1 and 12  | 12  |
| 4.  | †Foreign language—the completion of a course numbered 12      | 12  |
| 5.  | Science (laboratory)—six semester hours in each of any two of |     |
|     | the following sciences: botany, biology, chemistry, physics,  |     |
|     | geology, zoology  | 12  |
| 6.  | Mathematics or numbered courses of †Latin or †German or       |     |
|     | †Greek  | 6   |
| 7.  | Government 10   | 6   |
| 8.  | Philosophy or psychology                                      | 3   |
| 9.  | *Social science   | 6   |
| ιο. | Electives, twelve semester hours of which must be advanced,   | 21  |
| 1.  | Physical training—no credit                                   | 0   |
|     | _   |     |
|     |   | 120 |
|     | •   |     |

<sup>†</sup>See Number 6 under Course Requirements. \*Economics, government, history, philosophy, psychology, sociology, or

# ECONOMICS MAJOR

Minor-See Group B under "Concentrations"

|            | Ho   | urs |
|------------|--|-----|
| 1.         | Economics 312, 313, 329, and fifteen additional semester hours of economics, at least nine hours of which must be advanced | 24  |
| 2.         | Minor subject, eighteen semester hours, six of which must be   |     |
|            | advanced   | 18  |
| -3.        | English 1 and 12   | 12  |
| 4.         | †Foreign Language—the completion of a course numbered 12   | 12  |
| Б.         | Science (laboratory)—six semester hours in each of any two of the following sciences: botany, biology, chemistry, physics, |     |
|            | geology, zoology   | 12  |
| 6.         | Mathematics or numbered courses of tLatin or tGerman or tGreek   | 6   |
| 7.         | Government 10  | 6   |
| 8.         | Philosophy or psychology   | 3   |
| 9.         | *Social science (See No. 1)  | 0   |
| <b>10.</b> | Electives, twelve semester hours of which must be advanced   | 27  |
| <b>11.</b> | Physical training—no credit  | 0   |
|            |  | 120 |
|            |  |     |

<sup>†</sup>See Number 6 under Course Requirements.

\*Economics, government, history, philosophy, psychology, sociology, or combination.

# \*\*EDUCATION MAJOR

Minors in any two teaching subjects-See Group B under "Concentrations"

## Requirements

|     | Ho   | ur# |
|-----|--|-----|
| 1.  | Education-twenty-four semester hours, including Education 27   |     |
| 20  | or 28 and six additional semester hours of advanced courses<br>First teaching subject—eighteen semester hours of numbered  | 24  |
|     | courses, six of which must be advanced   | 18  |
| 2b. | Second teaching subject—eighteen semester hours of number-   |     |
|     | ed courses, six of which must be advanced  | 18  |
| 3.  | English 1 and 12   | 12  |
| 4.  | †Foreign language—the completion of a course numbered 12   | 12  |
| б.  | Science (laboratory)—six semester hours in each of any two of the following sciences: botany, biology, chemistry, physics, |     |
|     | geology, zoology   | 12  |
| 6.  | Mathematics or numbered courses of †Latin or †German or  |     |
|     | †Greek   | 8:  |
| 7.  | Government 10  | 6   |
| 8.  | Philosophy or psychology   | 3.  |
| 9.  | *Social Science  | 6.  |
| ١٥. | **Elective, advanced courses   | 8   |
| 1.  | Physical training—no credit  | 0,  |
|     | -  |     |

120

<sup>†</sup>See Number 6 under Course Requirements.

<sup>\*</sup>Economics, government, history, philosophy, psychology, sociology, or combination.

<sup>\*\*</sup>Students electing the education major are advised to plan their course programs carefully so as to meet the general requirement of a total of thirty semester hours of advanced courses.

# ENGLISH MAJOR

Minor-See Group B under "Concentrations"

|     | H   | lours |
|-----|---|-------|
| 1.  | English 1, 12, and twelve additional semester hours of advanced   |       |
|     | courses   | 24    |
| 2.  | Minor-eighteen semester hours, six of which must be advanced  | 18    |
| 3.  | English 1 and 12 (See No. 1)  | 0     |
| 4.  | †Foreign language—the completion of a course numbered 12  | 12    |
| ъ.  | Science (laboratory)—six semester hours in each of any two of the following sciences: botany, biology, chemistry, physics, geology, zoology |       |
| -6. | Mathematics or numbered courses of †Latin or †German or †Greek  |       |
| 7   | Government 10   | _     |
| 8   |   |       |
| -   | Philosophy or psychology  |       |
| 9.  | *Social Science   | 12    |
| LO. | Electives, twelve semester hours of which must be advanced  | 27    |
| .11 | Physical training—no credit   | 0     |
|     |   | 120   |

<sup>†</sup>See Number 6 under Course Requirements.

\*Economics, government, history, philosophy, psychology, sociology, or combination.

# HISTORY MAJOR

Minor-See Group B under "Concentrations"

|       | H   | ours |
|-------|---|------|
| 1.    | Historytwenty-four semester hours, twelve of which must be    |      |
|       | advanced  | 24   |
| 2.    | Minor-eighteen semester hours, six of which must be advanced  | 18   |
| 3.    | English 1 and 12  | 12   |
| 4.    | †Foreign language—the completion of a course numbered 12      | 12   |
| 5.    | Science (laboratory)—six semester hours in each of any two of |      |
|       | the following sciences: botany, blology, chemistry, physics,  |      |
|       | geology, zoology  | 12   |
| 6.    | Mathematics or numbered courses of †Latin or †German or       |      |
|       | †Greek  | 6 -  |
| 7.    | Government 10   | 6    |
| 8.    | Philosophy or psychology                                      | 3    |
| 9.    | *Social science (See No. 1)                                   | 0.   |
| 10.   | Electives, twelve semester hours of which must be advanced    | 27   |
| 11. • | Physical training—no credit                                   | 0    |
|       | -   |      |
|       |   | 194  |

<sup>†</sup>See Number 6 under Course Requirements.
•Economics, government, history, philosophy, psychology, sociology, or combination.

# MODERN LANGUAGE MAJOR

Minor-See Group B under "Concentrations"

|     | reganenens  |              |
|-----|---|--------------|
|     | $\mathbf{H}_0$  | ou <b>rs</b> |
| 1,  | †Major language — courses 1 and 12 and twelve additional semester hours of advanced courses   | 24           |
| 2.  | Minor-eighteen semester hours, six of which must be ad-   |              |
|     | vanced  | 18           |
| 3.  | English 1 and 12  | 12           |
| 4.  | †A second language—the completion of a course numbered 12   | 12           |
| 5.  | Science (laboratory)—six semester hours in each of any two of the following sciences: botany, biology, chemistry, physics, geology, zoology | 12           |
| 6.  |   | 12           |
|     | †Greek  | 6            |
| 7.  | Government 10   | 6            |
| 8,  | Philosophy or Psychology  | 3            |
| 9.  | *Social science   | 6            |
| LO. | Elective, twelve semester hours of which must be advanced   | 21           |
| 1.  | Physical training—no credit   | 0            |
|     | · · · · · · · · · · · · · · · · · · ·   | 120          |

<sup>†</sup>See Number 6 under Course Requirements.
•Economics, government, history, philosophy, psychology, sociology, or combination.

# MUSIC MAJORS

# Public School Music

# Minor-Applied Music

| H  | ours |
|--|------|
| 1. Music 1, 10, 30, and Public School Music **51 or ¶52          | 24   |
| 2a. Applied Music (in addition to Freshman non credit course)    |      |
| eighteen semester hours, six of which must be advanced           | 18   |
| 2b. Education 301, 305. **314 or \316, \317 or **318             | 12   |
| 3. English 1 and 12  | 12   |
| 4. †Foreign language—the completion of a course numbered 12      | 12   |
| 5. Science (laboratory)-six semester hours in each of any two of |      |
| the following sciences: botany, biology, chemistry, physics,     |      |
| geology, zoology   | 12   |
| 6. Mathematics or numbered courses of †Latin or †German or       |      |
| †Greek   | 6    |
| 7. Government 10   | 6    |
| 8. Philosophy or Psychology                                      | 8    |
| 9. *Social Science   | 6    |
| 10. Electives, advanced courses                                  | 9    |
| 11. Physical training—no credit                                  | 0    |
| •  |      |
|  | 3.00 |

<sup>†</sup>See Number 6 under Course Requirements.

\*Economics, government, history, philosophy, psychology, sociology, or combination.

\*\*For elementary teacher's certificate.

[For high school teacher's certificate.

# Music Theory

# Minor-Applied Music

|     | H   | oure |
|-----|---|------|
| 1.  | Music 1, 10, 30, and 20 or 40 or 50                           | 24   |
| 2.  | Applied Music (in addition to Freshman non-credit course)-    |      |
|     | eighteen semester hours, six of which must be advanced        | 18   |
| 3.  | English 1 and 12  | 12   |
| 4.  | †Foreign language-the completion of a course numbered 12      | 12   |
| 5.  | Science (laboratory)-six semester hours in each of any two of |      |
|     | the following sciences: botany, biology, chemistry, physics,  |      |
|     | geology, zoology  | 12   |
| 6.  | Mathematics or numbered courses of †Latin or †German or       |      |
|     | †Greek ,,   | 6    |
| 7.  | Government 10   | 6    |
| 8.  | Philosophy or Psychology                                      | 3    |
| 9.  | *Social Science   | 6    |
| 10. | Electives, twelve semester hours of which must be advanced    | 21   |
| 11. | Physical training—no credit                                   | 0    |
|     | •   | 120  |

<sup>†</sup>See Number 6 under Course Requirements.
\*Economics, government, history, philosophy, psychology, sociology, or combination.

### **†SCIENCE MAJOR**

\*\*Minor-See Group A under "Concentrations"

### Requirements

|     | $oldsymbol{\mathrm{H}}_{\mathrm{c}}$                          | ours |
|-----|---|------|
| 1.  | must be advanced  | 24   |
| 2.  | **A second science—eighteen semester hours, six of which must |      |
|     | be advanced   | 18   |
| 3.  | English 1 and 12  | 12   |
| 4.  | Foreign language—the completion of a course numbered 12       | 12   |
| 5.  | Science—(See No. 1 and No. 2)                                 | 0    |
| 6.  | §Mathematics  | 6    |
| 7.  | Government 10   | 6    |
| 8.  | Philosophy or psychology                                      | 3    |
| 9.  | *Social science   | 6    |
| 10. | Elective, twelve semester hours of which must be advanced     | 33   |
| 11. | Physical training—no credit                                   | 0    |
|     | · ·   | 120  |

tWhen registering for this major, the student should be careful to secure proper advice concerning the order and choice of courses.

\*\*A different minor may be chosen only with the consent of the head of the major department and the approval of the dean.

\$Mathematics 803 is required for majors in chemistry, mathematics and physics; and for minors in mathematics and physics.

\*Economics government history sociology philosophy psychology.

\*Economics, government, history, sociology, philosophy, psychology, or combination.

### PRELIMINARY WORK FOR OTHER DEGREES

Preliminary work is offered for law and medicine.

### Selection of Courses

Certain rules govern the order and choice of work, particularly for the freshman and sophomore years. These rules vary somewhat with the character of the degree for which the student proposes to become a candidate. The student should advise with his Dean concerning the selection of courses.

### Work Preparatory to Law

Minimum Requirements for Admission to The University of Texas
School of Lew

Freshman Year: English 1, six semester hours in mathematics, History 4, a natural science, an elective.

Sophomore Year: English 12, Government 10, Economics 312 and 313, History 315 and 316, and any other academic course which requires sophomore standing or completion of a freshman course as a prerequisite.

### Work Preparatory to Medicine

Leading to Degree of Bachelor of Arts

Completion of the following courses leads to the degree of Bachelor of Arts at the end of the first year of work in the School of Medicine at Galveston.

Thus both the B.A. and the M.D. degrees may be taken in seven years.

Freshman Year: English 1: French 1 or German 1; six semester hours in mathematics; Chemistry 801: Zoology 1.

Sophomore Year: English 12; French 12 or German 12; Chemistry 311 and 413; Physics 1; Zoology 14.

Junior Year: Chemistry 821 and 323; Government 10; three semester hours in economics; Psychology 310; Biology 316 and 317, or Zoology 320 and 321; elective, enough to make a total of thirty semester hours for the year.

# WORK PRELIMINARY TO OTHER ENGINEERING DEGREES

Uniform Freshman Year.—First semester: Mathematics 803a, Chemistry 801a, Drawing 301, English 1a, Physics 1a. Second semester: Mathematics 803b, Chemistry 801b, Drawing 302, English 1b, Physics 1b. Additional courses are offered, such as to enable students to complete in general work through the sophomore year in civil, chemical, electrical, and mechanical engineering.

### STATE TEACHERS' CERTIFICATES

In view of the fact that accredited public school systems require degrees of beginning teachers, students are not encouraged to apply for certificates until after graduation.

.The requirements for the six-year elementary teacher's certificate are sixty hours of credit work including English 1. Government 10, and Education 301, 305, 314, and 318; for the four-year high school certificate, sixty semester hours including English 1, Government 10, and Education 301, 305, 316, and 317.

Students planning to teach in the elementary grades are advised to take Education 28 also.

A student who holds an A. B. degree from the College is entitled to a permanent high-school certificate, provided he has credit for Education 301, 305, 316, 317, 27, and six other semester hours of advanced courses in education.

Information concerning other teachers' certificates may be obtained from the Registrar.

# COURSES OF INSTRUCTION

For an explanation regarding numbers and letters used in titles of courses and their meanings with respect to prerequisites of residence and credit, credit hours earnable, amount of work required in and out of class, semesters in which offered, etc., please see "Explanation of Courses."

### BIOLOGICAL SCIENCES

Professor Berkman; Assistant Professor Jenness Biology

307s. Anatomy and Physiology.—Anatomical study of a mammal, kinesiology-action of muscles and joints, followed by a study in physiology and hygiene of man. Prerequisite: Botany 301, or Zoology 301. This course does not satisfy premedical requirements nor the prerequisites for courses in zoology. Two lectures and three laboratory hours, or the equivalent. Laboratory fee, \$2. Credit value: Three semester hours.

316f. Heredity.—Elementary presentation of fundamental principles of heredity in their application to animals, plants, and mankind. This course may not be used to satisfy the science requirement for the A. B. degree. Prerequisite: Sophomore standing or six semester hours in a laboratory science. Credit value: Three semester hours.

\$17s. Evolution.—Topics considered in this course are: The evidence of evolution; methods of evolution; the course and trends evolution has taken, and the influence of the doctrine of evolution on man's life. This course may not be used to satisfy the science requirement for the A. B. degree. Prerequisite: Sophomore standing, or six semester hours in a laboratory science. Credit value: Three semester hours.

330s. Technique in Histology and Cytology.—A study in the procedular of fixing, imbedding, sectioning, staining, and mounting cells and tissues of plants and animals for critical analysis. Prerequisite: Bacterlology 29, or 12 semester hours in zoology, or botany. Two lectures and three laboratory hours, or the equivalent. Laboratory fee, \$2. Credit value: Three semester hours.

29. General Bacteriology.—A study of distribution, structure, reproduction, and classification of bacteria, preparation of culture media, principles of sterilization, observation and isolation of pathogenic organizisms, immunology, and bacterial investigation of water and milk. Prerequisite: Twelve semester hours in any one of the natural sciences, or a combination of twelve semester hours in natural sciences and junior standing. Two lectures and three laboratory hours, or the equivalent. Laboratory fee, \$4. Credit value: Six semester hours.

### Botany

- 301f. General Botany.—Study of a typical plant and the structure and physiology of the plant cell, followed by a survey of the algae and the fungi coupled with references to their position in the environment of man. Two lectures and three laboratory hours. Laboratory fee, \$2. Credit value: Three semester hours.
- 302s. General Botany.—A survey of the mosses, ferns, and seed plants, including brief discussions on their importance in the environment of man. The last few lectures include a survey of the Mendellan Law. Prerequisite: Botany 301. Two lectures and three laboratory hours. Laboratory fee, \$2. Credit value: Three semester hoors.

### Zoology

- 301f. General Zoology.—Designed to give an introduction to theoretical biology, followed by a survey of the invertebrates, including references to their importance in the environment of man. Two lectures and four laboratory hours. Laboratory fee, \$2. Credit value: Three semester hours.
- 302s. General Vertebrate Zoology.—A survey of the structure of vertebrates, introduction to animal histology and genetics. Prerequisite: Zoology 301. Two lecture hours and four laboratory hours. Laboratory fee, \$2. Credit value: Three semester hours.
- 14. Vertebrate Zoology.—Laboratory study of the structure of dog-fish necturus, turtle, bird, mammal, and perhaps other typical vertebrates. Pre-requisite: Zoology 1. Two lectures and four laboratory hours. Laboratory fee, \$4. Credit value: Six semester hours.
- 320s. Animal Cytology and Histology.—The study of cell phenomena, such as structure of the cell, maturation, fertilization, sex determination, cell division. Prerequisite: Zoology 14; for juniors and seniors, Zoology 1 completed with a grade of at least C, and Zoology 14 in parallel. Zoology 14 must be completed before the student can get credit for Zoology 320. Two lectures and four laboratory hours. Laboratory fee, \$2. Credit value: Three semester hours.
- 321f. Vertebrate Embryology.—A study of the development of typical vertebrates, with emphasis on the development of the chick and a mammal. Prerequisite: Zoology 1 and 14: for juniors and seniors, Zoology 1 completed with a grade of at least C, and Zoology 14 in parallel. Zoology 14 must be completed before credit can be given the student for Zoology 321. Two lectures and four laboratory hours. Laboratory fee, \$2. Credit value: Three semester hours.

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### CHEMISTRY

# Professor Seamon; Associate Professor Lake; Instructor Ball

- 1. General Chemistry.—Fundamental principles of chemistry. Designed for those students whose formal education in chemistry terminates with one year's work in the subject or whose degree plans stipulate six hours of general chemistry as the total requirement in that science. Two lectures, one demonstration hour, and two laboratory hours per week. Laboratory fee, \$4. Credit value: Six semester hours.
- 801. General Chemistry.—The laws and theories of chemistry; the chemical elements and their most important compounds with reference to their production and use. For students who need a foundation for work in advanced chemistry and related sciences. Two lectures, one recitation, and three laboratory hours. Laboratory fee, \$4. Credit value: Eight semester hours.
- 305fs. A review of the fundamental principles of elementary chemistry and their application. Required of all students who, after trial and a qualifying examination, are found insufficiently prepared to carry Chemistry 801a and who plan to register for that course the next succeeding semester. May not be used as a pre-requisite for any chemistry course other than 801a. Two lecture hours, one demonstration hour, and two laboratory hours per week. Credit value: Three semester hours. May not be counted in addition to Chemistry 801a or 1a.
- 311f. Qualitative Analysis.—Intended to emphasize the principles involved in chemical analysis, to broaden the student's knowledge of inorganic chemistry, to develop deductive reasoning power, and to give practice in manipulation. The student is required to analyze unknown solids and solutions. Prerequisites: Chemistry 801 or Chemistry 1 with a grade of C. One lecture and six laboratory hours. Laboratory fee, \$2. Credit value: Three semester hours.
- 413s. Quantitative Analysis.—The quantitative analysis of chemical salts, minerals, ores, rocks, and industrial products. Prerequisite: Chemistry 311. The last three semester hours of this course count as advanced. One lecture and eight laboratory hours. Laboratory fee, \$4. Credit value: Four semester hours.
- 21 and 821. Organic Chemistry.—A study of the fundamental types of carbon compounds. Prerequisite: Chemistry 801 with a grade of C. Three lectures and three laboratory hours per week for 821. Students registering for 21 will receive the equivalent of two lectures and three laboratory hours. Laboratory fee, \$4. Credit value for 21: Six semester hours; for 821: Eight semester hours.
- 323f. Quantitative Analysis.—A continuation of Chemistry 413. Pre-requisite: Chemistry 413. One lecture and six laboratory hours. Laboratory fee, \$2. Credit value: Three semester hours.

324s. Assaying.—The determination of gold, silver, and lead by fire methods in minerals, ores, and products of mills and smelters. Prerequisite: Chemistry 323. One lecture and six laboratory hours. Laboratory fee, \$2. Credit value: Three semester hours.

325f. Physical Chemistry.—Properties of substances in the gaseous, liquid, and solid state; solutions; thermochemistry. Prerequisite: Chemistry 413, Mathematics 13, and Physics 1 or 812. Two lectures and three laboratory hours per week. Laboratory fee, \$2. Credit value: Three semester hours.

326s. Physical Chemistry.—Homogeneous and hetergeneous equilibria; kinetics of reaction, electrochemistry, and chemical thermodynamics. Prerequisite: Chemistry 325. Two lectures and three laboratory hours per week. Laboratory fee, \$2. Credit value: Three semester hours.

#### ECONOMICS AND BUSINESS ADMINISTRATION

### Professor Morris; Assistant Professor Smith

In majoring or minoring in the department of economics and business administration, the student may elect any of four channels of preparation; namely, (a) general economics, (b) general business training, (c) accounting, or (d) secretarial science. Because of the relationship which one course bears to another in the fields of economics and business administration, there is necessarily some overlapping in the courses suggested for these four channels of concentration; but experience has taught that particular courses are fundamental for the concentrations. For example, the secretarial science student would benefit most from typewriting, shorthand, office practice, etc. Students majoring or minoring (or both) in this department, then, would do well to consider carefully the following suggestions of courses. (a) General Economics: among others, Economics 321, 322, 332, 325, 357, and 358; and Business Administration 311-314. (b) General Business Training: Among others, Business Administration 311, 314, 10, 420, 357, 454, and 23; and Economics 312-313. (c) Accounting: among others, Business Administration 311, 314, 326, 327K, 329, 330, 420, and 23; and Economics 312, 313, and 322. (d) Secretarial Science: among others, Business Administration 10, 21, 420, 334, 311, 314, and 23; and Economics 312, 313 and 322.

Note to majors and minors in this department.—In order that the courses may be coordinated and planned in advance, every student intending to major or minor in Economics or Business Administration is urged to counsel with the head of this department before registration in the sophomore year. Advice at this stage may prevent subsequent difficulties in the student's program.

## Economics ·

- 312fs. Principles of Economics.—A general survey of the principles and facts involved in production and exchange of goods in a capitalistic society. Factors of production; the American monetary system; banking organization; transportation; markets; elucidation of value and price. Prerequisite: Sophomore standing. Credit value: Three semester hours.
- 313s. Principles of Economics.—A continuation of Economics 312. The principles of distribution of wealth in a capitalistic society. Theories underlying determination of rent, wages, profits, and interest. Public utilities; protective tariffs; business cycles; public revenue; public credit. Prerequisite: Economics 312. Credit value: Three semester hours.
- 3211. Public Finance and Taxation.—A general treatment of financial administration by agencies of the government of the United States. Principles of taxation; the property tax; income taxes: the sales tax and other types of taxation. Analysis of governmental expenditures; public credit. Prerequisite: Economics 313. Credit value: Three semester hours. (Omitted in 1939-1940; to be offered in 1940-1941.)
- 322f. Money and Banking.—Studies of the principles of money and banking, the existing money and banking systems of the United States and selected foreign countries, and important theories underlying credit. History of the precious metals; bimetallism; banking development; relation of money and credit to prices; foreign exchange. Prerequisite: Economics 313. Credit value: Three semester hours. (Given in alternate years; to be omitted in 1940-1941. May not be counted for credit in addition to Business Administration 454.
- 325s. Business Cycles.—A study of value and its relation to the oscillations of business. Isolation and interpretation of facts relating to the trade cycle. Analysis and evaluation of American and foreign theories of depressions. Emphasis upon current problems and proposed and attempted alleviations. Prerequisite: Economics 313. Credit value: Three semester hours. (Omitted in 1939-1940; to be offered in 1940-1941.)
- 328f. Economic History of the South.—A chronological study of the agricultural and industrial development of the southern states. Relationship of the South's economic institutions; banking; public finance; natural resources; geographic advantages. Colonial period through the modern era. Prerequisite: Economics 313. Credit value: Three semester hours. (Given in Summer Session in 1939.)
- 329f. Economic Statistics.—Training in the quantitative methods of dealing with mass data. The use of graphic and tabular methods of presentation of facts. Measures of central tendency; index numbers; measures of deviation and skewness; time series; correlation. Prerequisite: Economics 313 and six semester hours of mathematics. Three hours and three laboratory hours per week. Laboratory fee, \$2. Credit value: Three semester hours. (May not be counted for credit in addition to Business Administration 432.)

- 330s. Economic and Financial History of the United States.—The development of agriculture, industry, and commerce of this country from colonial times to the present. Banking; trade; public finance; government regulation; and general economic development. Problems raised by the growth of economic complexities. Prerequisite: Economics 313. Credit value: Three semester hours. (Given in alternate years; to be omitted in 1940-1941.)
- 332f. Corporation Finance.—The promotion of corporations in the process of formation; capital sources; capital structures, internal financial management, receiverships; reorganizations; relation of corporation finance to banking; social consequences of over-promotion. Prerequisite: Economics 313. Credit value: Three semester hours. (Given in alternate years; to be omitted in 1940-1941).
- 333s. Advanced Statistics.—A review of the measures of central tendency with short-cuts; dispersion measurement technique; the theory of the "bell-shaped" curve and the expansion of the binomial; the theory of standard deviation interpretation; simple, multiple, linear, and curvilinear correlation. Prerequisite: Economics 329. Credit value: Three semester hours. May not be counted for credit in addition to Business Administration 333s. (Given in alternate years; to be offered in 1940-1941.)
- 341s. Advanced Banking Theory and Practice.—A study of banking in its relation to the economic world; promotion and incorporation; banking organization and powers; the directors; stockholders; clearing and collection system; credit analysis; banking departments; Federal Reserve system; open market operations; specialized finance houses. Prerequisite: Economics 313. Credit value: Three semester hours. (Given in alternate years; to be omitted in 1940-1941.) May not be counted for credit in addition to Business Administration 341.
- 343f. Cooperative Economic Systems.—A consideration of the economic foundations of the capitalistic and other systems. An objective study of the economic construction of Fascism, Nazism, Socialism, Communism. Prerequisite: Economics 313. Credit value: Three semester hours. (Given in alternate years; to be offered in 1940-1941.)
- 349f. Labor Problems.—Problems of the State and Federal Govenment in relation to labor in selected fields: child labor; minimum wages; hours of labor; social insurance; retirement programs. The American Federation of Labor; the C.I.O.; other organizations; strikes; lockouts; current issues. The Wagner Labor Relations Act. Prerequisite: Economics 313. Credit value: Three semester hours. (Given in alternate years; to be omitted in 1940-1941.)
- 358s. International Economic Relations.—Mercantilism as a background; English commercial development; American colonial development; tariff history; problems of free trade; international movements of money; international commercial entanglements; inter-governmental debt payments; reparations; American technique in dealing with foreign countries. Pro-

requisite: Economics 313 and three semester hours of advanced economics. Credit value: Three semester hours. (Given in alternate years; to be offered in 1940-1941.)

#### **Business Administration**

- 01. Elementary Typewriting.—A non-credit course, equivalent to the typewriting requirement in Business Administration 10, given for the benefit of those students who do not desire shorthand. Laboratory fee, \$4. (To be omitted after 1939-1940.)
- 10. Shorthand and Typewriting.—Mastery of the elementary principles of Gregg shorthand; transcription; and typewriting. Six semester hours credit is allowed when the standard of speed and accuracy is met in both shorthand and typewriting. No credit otherwise. Prerequisite: Sophomore standing. Three shorthand lecture periods and six hours of typewriting practice per week. Laboratory fee, \$4.
- 311f. Theory and Principles of Accounting.—Principles of double entry bookkeeping and theories of general financial accounting. The analysis and recording of business transactions; adjusting and closing entries; financial statements; sole proprietership accounting. Use of the worksheet. Prerequisite: Sophomore standing. Credit value: Three semester hours.
- 314s. The Practice of Accounting.—A continuation of Business Administration 311. Partnership accounting; corporation accounting; reserves and reserve funds; manufacturing accounts; asset valuation. Prerequisite: Business Administration 311. Two hours of lecture and four hours of laboratory per week. Laboratory fee, \$2. Credit value: Three semester hours.
- 420s. Business Correspondence.—A course in the writing of clear, concise and forceful business letters. Practical business situations are given as bases of letter assignments. Practice is given in the writing of sales letters, credit letters; adjustments; claim; order; rejection; collection; and application letters. Part of the course is given over to the theory and practice of business report writing. Prerequisite: English 12, Business Administration 314, and Typewriting 01 or its equivalent. Credit value: Four semester hours. Three lectures and two laboratory hours per week.
- 21. Advanced Stenography.—Training in advanced secretarial practice. Development of speed and accuracy in shorthand and typewriting. Character study and practice in dictation of medical, legal and engineering phraseology. Technique in letter layouts. Practice in receiving messages and transcribing from the Dictaphone. Three lectures and six laboratory hours per week. Prerequisite: Business Administration 10 and 314. Credit value: Six semester hours. (Given in alternate years; to be omitted in 1940-1941.)
- 23. Business Law.—Textbook and case method; cases on the law of contracts, agency, bankruptcy, bailments, sales, mortgages, negotiable instruments. Partnership and corporation cases. Prerequisite: Business Administration 314 or Economics 313. Credit value: Six semester hours. (Given in alternate years; to be omitted in 1940-41.)

- 326f. Intermediate Accounting, First Course.—Classification and codification of accounts, forms, and contents of financial statements; theory involved in corporation accounting: actuarial science; accounting for consignments and installment sales; evaluation of investments; comparative statements; analysis of working capital; statement of application of funds. Prerequisite: Business Administration 314. Credit value: Three semester hours. (Given in alternate years; to be omitted in 1940-1941.)
- 327Ks. Intermediate Accounting, Second Course.—Theory involved in partnership accounting: venture accounts; accounting for receivership; parent and subsidiary accounting; consolidated balance sheets; foreign exchange accounting; estates and trusts; budgets; public accounts; bank accounting; and stock brokerage accounting. Prerequisite: Business Administration 326. Credit value: Three semester hours. (Given in alternate years; to be omitted in 1940-1941.)
- 329f. Cost Accounting.—Accounting for materials, labor and manufacturing expense under specific cost system and under the continuous process cost system. Standard costs; accounting for variances; study of production orders and standing orders. Prerequisite: Business Administration 314. Credit value: Three semester hours. (To be offered in 1940-1941).
- 330s. Auditing.—Auditing procedure, reports, and working papers used in financial investigations; balance sheet and detailed audits. Verification of assets, liabilities, and nominal accounts. Prerequisite: Business Administration 314. Credit value: Three semester hours. (To be offered in 1940-1941.)
- 432f. Business Statistics.—Training in the quantitative methods of analysis used in dealing with mass data. The use of graphics and tabular presentations; organizing and describing data; the frequency distribution; measures of central tendency, dispersion and skewness; time series; and correlation. Prerequisite: Business Arministration 314. Credit value: Four semester hours. Three lectures and five laboratory hours per week. Laboratory fee, \$4. (May not be counted for credit in addition to Economics 329.)
- 333s. Advanced Statistics.—A review of the measures of central tendency with short-cuts; dispersion measurement technique; the theory of the "bell-shaped" curve and the expansion of the binomial; the theory of standard deviation interpretation; simple, multiple, linear, and curvilinear correlation. Prerequisite: Business Administration 432. Credit value: Three semester hours. May not be counted in addition to Economics 333s. (Given in alternate years; to be offered in 1940-1941.)
- 334f. Office Organization and Practice.—The location, equipment, organization, and general practice in effice routine. Practice in the use of the mimeograph machine, dictarhone, bookkeeping machines, and other types of modern office equipment. Demonstrational work in the use of and operation of a telephone switchboard. Designed especially for those students in-

tending to go into office work. Prerequisite: Business Administration 10 and 314. Credit value: Three semester hours. (Omitted in 1939-1940; to be offered in 1940-1941.)

- 337s. Marketing.—The place of marketing in our domestic business system. Functions of marketing; the place of the middle-man in the system; brief consideration of the wholesaler and the retailer. (Formerly Business Administration 437.) Prerequisite: Business Administration 314. Credit value: Three semester hours. (Given in alternate years; to be offered in 1940-1941.)
- 340. Business Advertising.—A study of the principles underlying advertising; the economic value of advertising; recent trends; correlating advertising budgets with movements in the price cycle. Study of the psychology of individual advertisements; consideration of the various media and the value of each. Prerequisite: Junior standing. Credit value: Three semester hours. (Given in Summer Session of 1939.)
- 341s. Advanced Banking Theory and Practice.—A study of banking in its relation to the economic world; promotion and incorporation; banking organization and powers; the directors; stockholders; clearing and collection system; credit analysis; banking department; Federal Reserve system; open market operation; specialized finance houses. Prerequisite: Business Administration 314. Credit value: Three semester hours. (Given in alternate years; to be omitted in 1940-1941.) May not be counted for credit in addition to Economics 341.
- 348s. Latin American Resources and Trade.—A study of the economic resources of the major Latin American nations; relations of the national costs of production to foreign trade. Trade relation of the United States with Mexico and other important Latin American countries. Technique of financing trade between this country and Latin America. Prerequisite: Business Administration 314. Credit value: Three semester hours. (Given in alternate years; to be offered in 1940-1941.)
- 4541. Short-Term Finance.—Operations of commercial banks, trust companies, and other credit-granting agencies; credit theory in its elementary form; credit analysis; recent monetary developments in the United States; foreign exchange practice; place of the Federal Reserve Banks in the financial structure. Prerequisite: Business Administration 314 and Economics 313. Credit value: Four semester hours. (Given in alternate years; to be omitted in 1940-1941.) May not be counted in addition to Economics 322.
- 357f. Investments.—Investment principles, investment banking, security flotation, and investment analysis; descriptions of various types of securities, including industrials, rails, utilities, governments, and others; technique of stock-market trading; investment mathematics. Prerequisite: Business Administration 314. Credit value: Three semester hours. (Omitted in 1939-1940; to be offered in 1940-1941).

358f. Life Insurance.—A study of the principles underlying group risk absorption: rate making: "loading"; types of risk carriers; term insurance; the endowment; annuities; disability and accidental death benefits. Organization and administration of insurance carriers. Government regulation and taxation of insurance companies. Prerequisite: Business Administration 314. Credit value: Three semester hours. (Given in alternate years; to be offer in 1940-1941.)

#### DESIGN AND INTERIOR DECORATING

#### Instructor Wise

301fs. Elementary Design.—The course will include a study of the fundamental principles of design, composition, creative design, history of design, and the Old Masters. Three lectures and three laboratory hours. Laboratory fee, \$2. Credit value: Three semester hours.

3029. Elementary Design.—Continued study of fundamental principles of design with emphasis upon composition and application to decorative forms in industrial design. Consideration will be given to the technique of handling media, pencil, charcoal, water color, etc., in creative design. Continued study of old masters from standpoint of design. Three lectures and three laboratory hours. Laboratory fee, \$2. Prerequisite: Design 301. Credit value: Three semester hours.

310f. Interior Decoration.—The course will include consideration of the fundamental principles of room decoration; the use of fabrics, furniture, and accessories; and a study of the relation of interior design to architecture. Prerequisite: Sophomore standing or consent of instructor. Three lectures and three laboratory hours. Laboratory fee, \$2; Laboratory hours to be arranged by instructor. Credit value: Three semester hours.

311s. Interior Decorating.—Continuation of study of period design from Renaissance through English and French periods to Colonial. Study of modern design. Particular attention to fabrics, their history and weaves. Modern weaves and their proper use. Adaptation of color theory studied in Design 301. Colors in modern fabrics and decorative trends. Wool and its use throughout different periods. Relation of interior design to architecture. Proper use of accessories. Three jectures and three laboratory hours. Laboratory fee, \$2. Prerequisite: Design 310. Credit value: Three semester hours.

3121. Advanced Design.—An advanced course in design with emphasis on its adaptation to different fields of art according to the tendencies of the individual student. Creative ability of student thus fostered as design in industry, advertising, painting, etc., are explored in this course. Emphasis placed on form and expression. Fundamentals taught. Laboratory fee. \$2. Three lectures and three laboratory hours. Prerequisite: Design 301 and 302. Credit value: Three semester hours.

313s. Advanced Design.—Design as functional in art. A working course in creative endeavor in various phases of art, such as painting, decorative design, textile design, advertising and industrial design, etc. Adaptation of principles learned in former design courses. Three lectures and three laboratory hours. Laboratory fee, \$2. Prerequisite: Design 301 and 302. Credit value: Three semester hours.

## EDUCATION AND PHYSICAL EDUCATION

#### EDUCATION

Professor Puckett; Associate Professor Agee; Assistant Professor Hoard;
Instructor Reynolds.

This program is intended to provide opportunity for the prospective teacher to obtain (a) orientation in the general field of education, (b) an over-view of the fundamental principles and philosophy of the elementary or secondary schools, and (c) specific training in the technique of instruction in the field or subject which is selected. Students who are planning to teach in the secondary schools are advised to take Education 301, 305, 316, 317, 27 and three semester hours of special methods courses in each of two high-school fields. Students who are planning to teach in the elementary schools are advised to take Education 301, 305, 314, 318, 28, and three semester hours of special methods courses in each of two elementary-school fields.

## General

- 3016s. Introduction to Educational Psychology.—A study of some of the topics in educational psychology which relate most directly to an understanding of the learning process and the conduct of children. Credit value: Three semester hours.
- 305fs. An Introduction to Education.—An introductory course in the field of education. Surveys the rise, chief concepts, and outstanding problems of modern education. An orientation course in education for beginning students. Credit value: Three semester hours.
- 320f. Adult Education.—A survey course in adult education; importance and meaning; psychology of adult learning; aims, functions, and methods; use of various agencies. Prerequisite: Twelve semester hours of Education. Credit value: Three semester hours. (Given in summer, 1938).
- 335f. Directing Study.—Examination of the literature on directing study. Formulation of units of work and discussion of methods for stimulating and guilding pupils at work. Prerequisite: Twelve semester hours in education. Credit value: Three semester hours.
- psychological bases of curriculum reorganization; general types of curriculum programs; changes in subject matter courses; unit types of organization of learning experiences; trends in administering curriculum programs with particular attention to Texas. Prerequisite: Twelve semester

Part ( )

hours of education. Credit value: Three semester hours. (Given in Summer Session of 1939.)

- 340s. The Administration and Supervision of Extra-Curricular Activities in the Modern School.—The course deals with the purposes and principles of extra-curricular activities in the school, with special emphasis on types of activities, organization and administration of the program, and principles of supervision. Prerequisite: Twelve semester hours of education. Credit value: Three semester hours. (Given in Summer Session of 1939.)
- 346f. Methods and Materials in Unit Teaching.—A survey of types of unit teaching with emphasis upon the Integrative unit and its application in the elementary school; characteristics of suitable units for each grade level; correlation in a unified program of activities and experiences. Prerequisite: Twelve semester hours in education. Credit value: Three semester hours. (Given in Summer Session of 1939.)
- 359s. Philosophy of Education.—Educational principles governing aims, curricula, methods, and organization: relation of individual to society, the social frontier, moral and religious education, antinomic principles of education; functions of family, church, school, and state in the education of children. Prerequisite: Twelve semester hours in education. Credit value: Three semester hours.
- 359Tf. Foundations of Modern Educational Theory and Practice,—Social groupings and their effect upon education: the place of the individual as an experiencing organism; social forces and their influence upon education; conflicting theories of modern educational philosophy and practice; the bases of modern educational theory of the progressive type. Prerequisite: Twelve semester hours of education. Credit value: Three semester hours. (Given in Summer Session of 1939).

## Elementary

- 314f. Child Psychology.—A study of the changes which take place in the life of the child as related to the processes of elementary education. Prerequisite: Education 301 and 305. Credit value: Three semester hours.
- 318s.—Introduction to Elementary Education.—Consideration will be given to the educational principles underlying present trends and practices in the elementary school. Special attention will be given to guiding learning through activities of children. Prerequisite: Education 301 and 305. Credit value: Three semester hours.
- 324f. Language Arts in the Primary Grades.—A study of materials and methods of teaching language, spelling, and handwriting from the standpoint of social utility in grades one, two, and three. Prerequisite: Education 314 and 318, or their equivalent. Credit value: Three semester hours. (Given in 1989-1940; to be omitted in 1940-1941.)
- 324Ts. Reading in the Intermediate Gradeu—A study of the materials and methods of teaching reading in grades five through eight with special attention to the use of drill materials and new mechanical aids. Prereq-

uisite: Education 314 and 318 or their equivalent. Credit value: Three semester hours. (Given in alternate years; to be offered in 1940-1941.)

- 28. Student-Teaching in the Elementary and Primary Grades.—Similar to Education 27, but for the elementary and primary grades. Ordinarily, one period daily for six days will be required, but students are expected to have two consecutive hours, between 9 and 3 o'clock throughout the week in order to facilitate making the teaching assignments. Prerequisite: Education 314 and 318, or their equivalent. Credit value: Six semester hours.
- 348f. Teaching Arithmetic and Science in the Primary Grades.—First half: Curriculum content in arithmetic with modern methods of teaching the subject in the first three grades. Second half: Building a background for teaching science in the primary grades, looking forward toward its inclusion in the curriculum. Prerequisite: Education 314 and 318, or their equivalent. Credit value: Three semester hours.
- 349f. Teaching of the Social Studies in the Elementary Grades.—The course will consider programs of instruction and procedures, as well as more detailed techniques in the teaching of specific units in the social studies. Consideration will be given to the function of social studies in an integrated program. Prerequisite: Education 314 and 318, or their equivalent. Credit value: Three semester hours. (Given in Long Session, 1938-1939.)
- 350s. Psychology of Elementary School Subjects.—A psychological analysis of the various subjects of the elementary school with emphasis upon the teaching implications involved. Prerequisite: Twelve semester hours in education. Credit value: Three semester hours. (Given in Summer Session 1938-1939.)
- 353s. Techniques of Teaching Reading in the Primary Grades.—A study will be made of the basic principles underlying desirable reading experiences which contribute to the success of the child in beginning reading and subsequent growth in ability to read with speed and comprehension. The place of drills, phonics, tests and the selection of materials will be emphasized. Prerequisite: Education 314 and 318, or their equivalent. Credit value: Three semester hours.

# Secondary

- 316f. Psychology of Adolescence.—A study of the nature and development of the individual through the adolescent period as related to the processes of secondary education. Emphasis is placed on the nature of individual differences and especially on the development of proper habits and the correct integration of behavior patterns into a socially desirable personality. Prerequisite: Education 301 and 305. Credit value: Three semester hours.
- 317s. An Introduction to High-School Teaching.—Basic principles of high-school teaching and high-school management will be considered. Prerequisite: Education 301 and 305. Credit value: Three semester hours.

- 322f. Organization and Teaching of Mathematics and Science in the Secondary School.—Methods of teaching Mathematics and Science in the secondary school. Prerequisite: Six semester hours of Science; six semester hours of Mathematics; and Education 316 and 317, or their equivalent. Credit value: Three semester hours. (Given in 1939-1940; to be omitted in 1940-1941.)
- 323f. Teachers' Course in Modern Languages.—Methods of teaching modern languages in secondary schools. Prerequisite: Course 12 in a language; and Educcation 316 and 317, or their equivalent. Credit value: Three semester hours. (Given in 1938-1940; to be omitted in 1940-1941.)
- 326s. Teachers' Course in English.—Methods of teaching English in secondary schools. Prerequisite: English 12; and Education 316 and 317, or their equivalent. Credit value; Three semester hours. (Omitted in 1939-1940; to be offered in 1940-1941.)
- 27. Student-Teaching in High School.—A study of the principles of teaching, observation of class work, construction of lesson plans, and teaching under supervision. Ordinarily, one period daily for six days a week will be required, but students are expected to have two consecutive hours, between 9 and 3 o'clock throughout the week, in order to facilitate making the teaching assignments. Required of all candidates for a permanent high-school certificate. Prerequisite: Education 316 and 317; or their equivalent. Credit value: Six semester hours.
- 3291. Teachers' Course in the Social Studies.—Methods of teaching the social studies in secondary schools. Prerequisite: Twelve semester hours in History; and Education 316 and 317, or their equivalent. Credit value: Three semester hours. (Omitted in 1939-1940; to be offered in 1940-1941.)

## PHYSICAL EDUCATION

# Associate Professor Saxon; Instructors Kane, Phillips

- 310s. Theory and Practice of Playground Activities.—This course will consider content, progression, and instruction in plays and games. Training will be given in the organization and supervision of play activities for the elementary school. Practice in teaching and officiating is required. Open to both men and women. Laboratory fee, \$2. Prerequisite: Sophomore standing. Credit value: Three semester hours. (To be offered in 1939-1940.)
- 311f. Personal Hygiene.—This course presents personal and general hygiene as a means for the improvement of living. Open to both men and women. Prerequisite: Sophomore standing. Credit value: Three semester hours. (Given in Long session, 1938-1939; omitted in 1939-1940.)
- 313f. Technique of Minor Sports.—Theory and practice in methods and materials for the following: soccer, basket ball, playground ball, baseball, volley ball, track, and minor sports. Open to both men and women Prerequisite: Sophomore standing, Laboratory fee, \$2. Credit value; Three semester hours. (Offered in 1939-1940.)

- 315f. Elementary Methods in Health Education.—A lecture and conference course dealing with materials and practical methods in health education. Open to both men and women. Prerequisite: Sophomore standing. Credit value: Three semester hours. (Given in 1938-1939; offered in 1939-1940.)
- 316f. Technique of Major Sports.—Theory and practice in methods and materials especially for the following: football, basketball. Open to men. Laboratory fee, \$2. Prerequisite: Sophomore standing. Credit value: Three semester hours. (Given in 1938-1939; offered in 1939-1940.)
- 318s. Appreciation of the Major Sports.—Rules and fundamental principles of football, basketball, and track with their relationship to the player and spectator. Prerequisite: Sophomore standing. Credit value: Three semester hours.

#### ENGINEERING AND DRAWING

## Professor Kidd: Assistant Professor Decker; Instructor Steen Engineering

- 410s. Elements of Electrical Engineering.—Direct current electric and magnetic circuits. Prerequisite: Physics 12a and registration in Mathematics 13b. Three recitations and one laboratory period a week. Laboratory fee, \$4. Credit value: Four semester hours.
- 312f. Mechanism.—A study of the laws which govern the motion of machine parts and the forces transmitted by the parts. Graphic analysis are made of various mechanisms, the motions produced, the velocities and accelerations of the parts; a study of links, cams, and gears. Prerequisite: Mathematics 803 and Drawing 302. Two lectures and three laboratory hours. Laboratory fee, \$2. Credit value: Three semester hours.
- 412f. Mechanism.—The same as Engineering 312, but with one additional laboratory period. Prerequisite: Mathematics 803, Drawing 302 and Physics 1. Two lectures and six laboratory hours. Laboratory fee, \$4. Credit value: Four semester hours.
- 313s. Plane Surveying.—The theory of plane surveying, including the care and adjustment of instruments; land surveying; traverses; leveling, determination of meridian; topographic surveying; mapping; the different systems of note-keeping; the usual computations used in plane surveying; and an elementary discussion of precision. Prerequisite: Mathematics 803 and Drawing 302. Three lectures. Credit value: Three semester hours.
- 414. Field Surveying.—Summer work; practical field course covering the topics outlined in Engineering 313. Accurate and rapid work will be insisted upon. Prerequisite: Engineering 313. Eight hours daily for four weeks: (Section No. 1 from June 17 to July 13, inclusive; Section No. 2 from July 15 to August 10, inclusive.) STUDENTS MUST BEGIN WORK ON THE DAY THE FIELD WORK OPENS. Deposit: \$8.00. Laboratory fee, \$4.00. Credit value: Four semester hours.

- 315f. Technical Mechanics.—Concurrent, parallel, and non-concurrent; forces; friction, reactions; graphical and analytical determination of stresses. In framed structures, centers of gravity, moments of inertia of areas. Prerequisite: Physics 1, and Mathematics 13a in advance or concurrently, Credit value: Three semester hours.
- 431s. Direct and Alternating Current.—Theory of direct and alternating current circuits and machinery; comparison of direct with alternating current for various uses in mining, metallurgical, and electro-chemical work. Prerequisite: Physics 812 and Mathematics 13. Three lectures and three-laboratory hours. Laboratory fee, \$4. Credit value: Four semester hours.
- 832. Applies Mechanics and Structures.—Center of gravity, moment of inertia, radius of gyration; bending moments; shear, torsion; resilience; flexure of beams; theory of long columns; strength of materials. The funicular polygon; moment diagram; shear diagram; determination of stresses, in various types of roof and bridge trusses; completed designs in steel and timber; comparisons as to weight and costs. Prerequisite: Drawing 302, Mathematics 13, and Physics 12 or 812. Three lectures and three laboratory hours. Credit value: Eight semester hours.
- 350f. Thermodynamics.—The fundamental equations of gases and their application to the steam engine; the heating values of different fuels; the construction and operation of steam boilers; boiler feed pumps; different types of steam engine as regards speed, valves, steam consumption, comparative cost, and relative economy; adjustments of valves, and determination of horsepower by the use of the indicator; steam turbines. Prerequisite: Mathematics 13 and Physics 12 or 812. Three lectures. Credit value: Three semester hours.
- 354s. Hydraulics.—Brief course of hydraulics, fluids in motion; flow of liquids through pipes, orifices, and over weirs, fluid friction and loss of head; Bernoulli's theorem; flow of water in canals and rivers; Kutter's formula; and graphical methods. Prerequisite: Physics 12 or 812 and Mathematics: 13. Three lectures, Credit value: Three semester hours.

## Drawing

- 301f. Engineering Drawing.—For all engineering students. Geometrical: construction, freehand lettering, orthographic projection, pictorial methods, working drawings, tracing, and blueprinting. One one-hour discussion and and eight hours of supervised drawing per week, Laboratory fee, \$2. Credit: value: Three semester hours.
  - 301s. Engineering Drawing.—Repetition of 301f.
- 302s. Descriptive Geometry.—Includes intersections and development of: solids, curved lines, curved surfaces, and warped surfaces, in addition to the point, line, and plane problems. Prerequisite: Drawing 301. One one-hour-discussion, and eight hours of supervised drawing per week. Credit value:. Three semester hours. Laboratory fee, \$2.

### Aviation

411. Civil Aeronautics.—This course to conform in all respects to the outline as given by the Civil Aeronautics Authority. The course will consist of lectures and quizzes on the following: History of Aviation; Civil Air Regulations: Navigation! Meteorology: Parachutes; Aircraft and Theory of Flight; Engines; Instruments: and Radio Uses and Forms. Prerequisite: Sophomore standing or permission from the Director of Vocational Flight Training. Given three times per week for twenty four weeks. Credit value: Four semester hours, elective credit.

## ENGLISH, JOURNALISM, AND PUBLIC SPEAKING

Professor Sonnichsen; Associate Professor Zimmerman; Assistant Professors Moses, Egg: Instructors Ball, Bounds, James Junell, Ponsford, Williams; Part-Time Instructors King, Nealon

### English

For the degree of Bachelor of Arts twelve semester hours in English are required: namely 1 and 12. English 1 is prerequisite to all other courses in English; English 12 or 12Q to all other courses in English literature.

Students expecting to do advanced work in English are advised to take courses in French or German, in history, and in philosophy.

- 1. Rhetoric and English Composition.—Study of the principles of good writing; outlining; analysis and discussion of typical prose selections; weekly themes; collateral reading. Prescribed for freshmen. Credit value: Six semester hours.
- 1as. Rhetoric and English Composition.—Repetition of the first semester of English 1.
- 3101s. Technical Writing.—A course designed as a preparation for technical writing. The principal object is to train the student in outlining and writing upon technical subjects for private reports and for publications. Reports upon assigned topics are required. Prerequisite: English 1. Credit value: Three semester hours.
- 12. Ontline History of English Literature.—Survey of English literature from the beginning to the present time. Study of masterpieces in prose and poetry, selections from Old English being read in translation. Frequent essays each semester. Prerequisite: English 1. English 12 or 12Q is prerequisite to all other courses in English literature. Credit value: Six semester hours.
- 12as. Outline History of English Literature.—Repetition of the first semester of English 12. Recommended for English majors.
- 12Q. English and American Literature.—A course designed to replace English 12 for students not expecting to specialize in English. Study of

significant specimens of prose and poetry by Victorian and modern writers: with the object of helping the student to orient himself in the world of to-day through a study of its literature. A good deal of supplementary reading, frequent conferences with the instructor, and several written reports will be required. The work of the second semester will include the study of significant specimens of prose and poetry from the sixteenth, seventeenth, eighteenth, and early nineteenth centuries with emphasis on the social values of the material and its importance in leading up to the literature of the present day. Prerequisite: English 1. Credit value: Six semester hours. Not recommended for English Majors.

- 3201. Shakespeare: The Earlier Plays.—Detailed study of a few of the plays composed before 1601, with a rapid reading of others belonging to the same period. Prerequisite: English 12. Credit value: Three semester hours. (Given in 1939-1940; to be omitted in 1940-1941.)
- 321s. Shakespeare: The Later Plays.—Detailed study of some of the great tragedies, followed by a rapid reading of other plays written after 1600. Prerequisite: English 12. Credit value: Three semester hours. (Given in 1939-1940; to be omitted in 1940-1941.)
- 3221. Victorian Poetry.—Consideration of the poetic works of Browning primarily, and study of such noteworthy minor poets as Arnold, Clough, James Thompson, and others. Prerequisite: English 12. Credit value: Three semester hours. (Given in 1939-1940; to be omitted in 1940-1941.)
- 323s. Victorian Poetry.—Consideration of the poetic works of Tennyson primarily, and study of such noteworthy minor poets as Swinburne, Morris, D. G. Rossetti, Christina Rossetti, and others. Prerequisite: English 12. Credit value: Three semester hours. (Given in 1939-1940; to be omitted in 1940-1941.)
- 325f. English Composition.—Intended for those who wish to study creative writing. Prerequisite: English 12 or 12Q with a grade of at least B. Credit value: Three semester hours. (To be offered in 1940-1941.)
- 3271. An Outline History of the English Novel.—Brief history of the novel from the romances of the sixteenth century through the eighteenth and the first quarter of the nineteenth century, with study of typical works of Richardson, Fielding, Smollett. Burney, Jane Austen, and Scott. Prerequisite: English 12. Credit value: Three semester hours. (Given in 1939-1940; to be omitted in 1940-1941.)
- 328s. An Outline History of the English Novel.—A continuation of English 327 with study of typical works of Dickens, Thackeray, George Eliot, Thomas Hardy, and Meredith. Prerequisite: English 327. Credit value: Three semester hours. (Given in 1939-1940; to be omitted in 1940-1941.)
- 331f. The Drama in England Since 1660.—A study of the representative plays of the Restoration Age, of the eighteenth and nineteenth centuries, and of such modern English playwrights as Jones, Pinero, Barker, St. John Hankin, Shaw, Coward, etc. Prerequisite: English 12. Credit value: Three semester hours. (To be offered in 1940-1941.)

- 332s. The Development of the American Drama.—A study of the drama of the Colonial and the Revolutionary Periods. Study of the development of the drama to modern times including such modern playwrights as the Mackayes, Thomas, Sheldon, Kaufman and Connelly, Crothers, Hughes, Davis, Anderson, and O'Neill. Prerequisite: English 12. Credit value: Three semester hours. (To be offered in 1940-1941.)
- **334f.** Contemporary Poetry.—Prerequisite: English 12. Credit value: Three semester hours. (Given in the Summer Session, 1939.)
- 335s. Contemporary Prose.—Prerequisite: English 12. Credit value: 'Three semester hours. (Given in the Summer Session, 1939.)
- 336f. American Literature.—A study of the chief American poets and prose writers of the Revolutionary period and the early nineteenth century. Prerequisite: English 12. Credit value: Three semester hours. (To be offered in 1940-1941.)
- 337s. American Literature.—A study of the most important American poets and prose writers from the Civil War to the present. Prerequisite: English 12. Credit value: Three semester hours. (To be offered in 1940-1941.)
- 339f. Eighteenth Century Prose.—After surveying rapidly the prose of some earlier writers, the class will study that of Defoe, Swift, Steele, Addison, Johnson, Boswell, Goldsmith, and Burke. Prerequisite: Engish 12. Credit value: Three semester hours. (To be offered in 1940-1941.)
- 340s. The Poctry of the English Classical Period.—Detailed study of poems of Dryden and Pope, together with the literary theory and later influence of these writers, the most important contemporary poets furnishing material for parallel reading. Prerequisite: English 12. Credit value: Three semester hours. (To be offered in 1940-1941.)
- 341f. The Short Story.—The literature and technique of the short story; the rise and nature of its form: an intensive study of its structure, together with an examination of short story types and masterpleces from various countries. Prerequisite: English 12. Credit value: Three semester hours. (Given in 1939-1940; to be omitted in 1940-1941.)
- 342s. Ide and Literature of the Southwest.—Study of verse, fiction, travels, and memoirs to acquaint students with the social inheritance, and its reflection in literature, of Texas and its neighboring territory. Prerequisite: English 12. Credit value: Three semester hours. (Given in 1939-1940; to be omitted in 1940-141.)
- 358f. The English Language.—A course designed to give an understanding of the growth, structure, and relationships of the English language with special emphasis on the development of modern English. Attention will be given to the theory of language and its function in human life and progress; the great language groups: developments from the Anglo-Saxon period to modern times. Prerequisite: English 12 or 12Q. Credit value: Three semester hours.

359s. A Continuation of English 358.—English in recent times. Dialects; usage; influence of scientific developments, war, radio, etc., foreign elements; word building; other topics leading to an understanding and appreciation of the student's native tongue. Prerequisite: English 358. Credit value: Three semester hours.

### **JOURNALISM**

- 12. News Gathering and Reporting.—Instruction and practice in interviewing and writing: discussion of news sources, news values, and various: types of news stories; study of the organization of newspaper staffs and news gathering associations. Prerequisite: Sophomore standing including English 1. Credit value: Six semester hours.
- 313f. History and Principles of Journalism.—Includes a study of the growth of the modern American newspaper, with emphasis on great figures in American journalism, and a study of the principles of the newspaper and magazine of today. Prerequisite: Sophomore standing including English 1. Credit value: Three semester hours. (Omitted in 1939-1940; to be offered in 1940-1941.)
- 315s. Basic Advertising.—Study of the mechanics of the writing of advertisements, layouts, copy, illustrations, etc. Use of color, cartoons, line-drawings vs. engravings. Study of the force of words in writing of copy. Prerequisite: Sophomore standing. Credit value: Three semester hours.
- 322s. The Special Article.—Methods of gathering material for newspapers and magazine feature stories through interviews, research, and observation; study of feature story form and style; discussion of markets for literary material; practice in writing feature stories. Prerequisite: Journalism 12 or English 12. Credit value: Three semester hours. (Offered in 1939-1940; to be omitted in 1940-1941.)
- 324f. News Editing.—Study of newspaper style books; instruction in headline writing; study of newspaper makeup; practice in reading newspaper copy for errors in fact, English, and style; also practice in writing headlines and rewriting news stories. Prerequisite: Journalism 12 or Journalism 313. Credit value: Three semester hours.
- 325s. Small Newspaper Production and Management.—Advanced study of newspaper technique and of the problems of newspaper management. Detailed study of makeup, advertising problems, news policies, and business: management, leading to a summer interneship on Texas newspapers. Prerequisite: Journalism 12. Credit: Three semester hours. (Omitted in 1939-1940; to be offered in 1940-1941.)
- 326s. Advertising Copywriting and Special Layouts.—Study of technique of copy writing and layout, direct mail advertising, circulars, and department store layouts. Study of marketing and media. Prerequisites: Journalism 12 and Journalism 315. Credit value: Three semester hours. (Omitted in 1939-1940; to be offered in 1940-1941.

- 327s. Promotion and Public Relations.—Detailed study of propaganda methods and technique, exploitation, and marketing via news channels. Radio publicity methods. Special emphasis on public relations, direction in industrial, commercial, and retailing fields. Prerequisite: Journalism 12 and Journalism 315. Credit value: Three semester hours.
- 340s. Editorial Writing and Direction.—Development and importance of the editorial; subject matter, policies, purposes, structure, and style; the editorial page, features, and makeup; editorial training, responsibility, and opportunity. Lectures, class discussions, written work, and written and oral criticism of individual work. Prerequisite: Journalism 12. Credit value: Three semester hours.

### Public Speaking

- 301fs. Speech Correction.—Training in the fundamentals of oral expression, including use of voice, pronunciation, enunciation, good usage, and correction of personal speech defects. Practice in the various forms of public speech will be required. Credit value: Three semester hours.
- 305fs. Principles of Speech.—A study of the theory of expression, exercises in improving stage presence; practice in speaking with special reference to distinct, direct, and convincing delivery. Speech material and composition emphasized. Prerequisite: Public Speaking 301. Credit value: Three semester hours.
- 312f. Play Production.—Elementary principles of play production, including acting, staging, lighting and make-up; practice in producing radio and stage plays. A study of the emotional basis of acting; the body as an expressive agent. Lectures, reports, and assigned readings in the literature of the drama and the theatre. A practical course to prepare students to produce plays in schools and communities. Prerequisite: Sophomore standing or six semester hours of Public Speaking. Credit value: Three aemester hours. (To be offered in 1939-1940.)
- 313s. Play Production.—A continuation of Public Speaking 312, with emphasis on casting, rehearsing, and directing. Prerequisite: Public Speaking 312. Credit value: Three semester hours.
- 320s. Oral Interpretation.—This course is designed to develop an adequate mental and emotional response to the meaning of literature. The necessary attention to the sound and meaning of words should lead to improvement in voice, pronunciation, and general effectiveness in speech. Emphasis is placed on objective speaking. Choric speaking as well as individual recital work will be included. Prerequisite: Junior standing including six semester hours of Public Speaking. Credit value: Three semester hours.
- 321f. Radio Speech—A course in the theory and practice of radio writing and speaking with special attention to radio drama. Prerequisite: Six semester hours in Public Speaking and Junior standing. Credit value: Three semester hours.

## GEOLOGY

## Professor Quinn; Associate Professor Nelson; Instructor Strain

- 1. Principles of General Geology.—Designed to provide a critical study of the fundamental principles of physiology and geology. One additional lecture hour each week will be required of students registering in mining engineering options and science major. Two hours of lecture and three-hours of laboratory demonstration or field work. Laboratory fee, \$4. Credit value: Six semester hours.
- 316f. Mineralogy.—Crystallography and blowpipe analysis; a study of the crystallography, chemical and physical properties of minerals and mineral determination by blowpipe methods. Classification of minerals. Prerequisite: Chemistry 1 (Chemistry 801 for engineering students). One lecture and six hours of laboratory work. Laboratory fee, \$2. Credit. value: Three semester hours.
- 317s and 217s. Mineralogy.—Determinative mineralogy; a continuation of 316f. Largely devoted to the identification of minerals by physical characteristics. Prerequisite: Geology 316. One lecture and six hours of laboratory work per week for 317. 217s is open only to engineering students who will receive six hours of laboratory work. Laboratory fee: \$2. Credit value: Two semester hours, for 217; three semester hours for 317.
- 4181. Invertebrate Paleontology.—A systematic study of the structure and classification of the important invertebrates together with their development and geological significance. Prerequisite: Geology 1b. Two lectures and six laboratory hours. Laboratory fee, \$4. Credit value: Foursemester hours. (Not given in 1939-1940; to be offered in 1940-1941.)
- 419s. Paleontological Stratigraphy.—A comprehensive study of the stratigraphy of North America with special emphasis on that of West Texasand the Southwest. Prerequisite: Geology 418. Two lectures and six laboratory hours. Laboratory fee, \$4. The last two hours of this course count: as advanced. Credit value: Four semester hours. (Not given in 1939-1940; to be offered in 1940-1941.)
- 321f. Advanced General Geology.—Certain topics of general geology such as stratigraphy, petrology, and structural geology are expanded in an advanced and quantitative manner. Prerequisite: Geology 16, or 316 and 217. Three lectures and three laboratory hours. Laboratory fee, \$2. Credit. value: Three semester hours.
- 322s. General Economic Geology.—A general consideration of economic occurrences of mineral deposits and rocks with considerable attention given to those of Texas and the Southwest. Prerequisite: Geology 217 or 317. Credit value: Three semester hours,
- 427s. Petrology and Petrography.—The determination, origin, and subsequent history of minerals and rocks as revealed in mineral grains and thin sections by the petrographic microscope. Prerequisite: Geology 321 in advance or concurrently. Two lectures and six laboratory hours. Lab-

oratory fee, \$4. Credit value: Four semester hours. (Given in 1939-1940; to be omitted in 1940-1941.)

463s. Geology of Petroleum, the Fuels and the Non-Metallics.—Study of the crigin, migration and accumulation of petroleum and natural gas; the origin and occurrence of fuels with emphasis on coals; and the study of the important economic occurrences of the non-metallic mineral deposits, stressing those occurring in Texas and the Southwest. Prerequisite: Geology 321. Three lectures and three laboratory hours. Laboratory fee, \$4. Credit value: Four semester hours.

264f Field Geology.—The course will include a field study of a limited area near the College, and the application of quantitative standards to the mapping and geological field studies. An acceptable typed thesis will be required of the successful completion of this course. Prerequisite: Six semester hours of advanced courses in geology. One lecture and one afternoon in field studies. Laboratory fee, \$2. Credit value: Two semester hours.

074s. Geology Field Trip.—A survey trip of about two weeks covering districts of geologic interest. Required of seniors majoring in geology. No credit, but required for graduation

### HISTORY, GOVERNMENT, AND SOCIOLOGY

Professor Waller; Associate Professor Null, Assistant Professors Quinn, Gregory, Stormont, Strickland

## History

- 4. History of England.—Survey of the social, economic, political and intellectual development of Britain and the British Empire. First semester, to 1660; second semester, 1660 to the present. Credit value: Six semester hours.
- 9. History of Europe, 1500-1914.—Brief survey of conditions at the end of the Middle Ages; rise of nationalities and absolutism; colonial expansion; social and economic progress; the Old Regime and the intellectual awakening; the French Revolution and the Napoleonic Era; restoration and reaction; industrial revolution; growth of nationalism and democracy; unification of Germany and Italy; the Balkan states and the Near Eastern problems; economic imperialism; political Socialism and State Socialism; Triple Alliance and Entente Cordiale; background of the World War. Credit value: Six semester hours.
- 312f. The Ancient World.—A survey of the ancient civilizations—Babylonian. Chaldean, Assyrian, Persian, and Egyptian; more intensive study of the Greek history with its art and culture and its spread over the Mediterranean world; Roman history with its system of law, its early beginnings and expansion over Europe, rise and decline of the Roman Empire. Prerequisite: Sophomore standing or six semester hours in history. Credit value: Three semester hours.

- 313s. Medieval Europe.—Renaissance and Reformation; cultural development of the Middle Ages; social, artistic, and economic phases of the Renaissance; development of feudalism and rise of city-states; causes and results of the Reformation; period of discovery. Prerequisite: Sophomore standing or six semester hours in history. Credit value: Three semester hours.
- 315f. History of the United States.—Survey history of the United States from the discovery of America to 1850. Prerequisite: Six semester hours in history or Sophomore standing. Credit value: Three semester hours.
- 316s. History of the United States.—Survey history of the United States from the Compromise of 1850 to the present. Prerequisite: Six semester hours in history or sophomore standing. Credit value: Three semester hours.
- 323f. Europe, 1870-1900.—A survey of the different countries of Europe and their internal developments to the close of the century. Prerequisite: Tweive semester hours in history. Credit value: Three semester hours. (Given in 1939-1940; to be omitted in 1940-1941.)
- 324s. Europe after 1900.—Europe in the twentieth century. The last years of peace, the World War, the peace treaties. Prerequisite: Twelve semester hours in history. Credit value: Three semester hours. (Given in 1939-1940; to be omitted in 1940-1941.)
- 325f. History of the United States, 1607-1787,—Settlement and development of the Colonies; representative principles of government; westward expansion of the Colonies with the resulting economic and political problems. Mercantilism and the British Imperial policy; colonial participation in the English and French conflicts in America; the American Revolution; state-making and constitutional development during and after the Revolution. Prerequisite: Twelve semester hours in history. Credit value: Three semester hours.
- 326s. History of the United States, 1787-1829.—Confederation and Constitution; formulation of foreign policy, culminating in classic expression in the Monroe Doctrine; Jeffersonian Democracy and Hamiltonian Federalism; expansion and development of Jacksonian Democracy; rise of nationalism and conflict over States' Rights, Prerequisite: Twelve semester hours in history. Credit value: Three semester hours.
- 327f. Social and Intellectual Development of the United States before 1860.—This course deals with the gradual development of American civilization. Emphasis is given to social customs, economic influences, racial contributions, religious beliefs, and humanitarian movements, as well as to the intellectual, artistic and scientific interest of the people. May be counted as advanced work in sociology. Prerequisite: Twelve semester hours in history or Sociology 310 and 311, depending upon whether the course is to be counted as advanced work in history or sociology. Credit value: Three semester hours. (Given in Summer Session of 1939.)

- 835f. History of the United States, 1829-1850.—Jacksonian Democracy; expansion of the United States into the Southwest and Far West; development of the controversy over state rights; slavery and cotton capitalism. Prerequisite: Twelve semester hours in history. Credit value: Three semester hours. (Given in 1939-1940; to be omitted in 1940-1941.)
- 336s. History of the United States, 1850-1865.—Slavery controversy; manifest destiny; party history, breakdown of the Whigs, rise of the Republican Party, new leaders: Civil War, its causes, economic and social factors, military operations, results. Prerequisite: Twelve semester hours in history. Credit value: Three semester hours. (Given in 1939-1940; to be omitted in 1940-1941.)
- 347f. Latin America: The Colonial Period.—This course gives a survey of the history and institutional development of Spanish and Portuguese America in the Colonial period. Prerequisite: Twelve semester hours in history. Credit value: Three semester hours. (To be offered in 1940-1941.)
- 348s. Latin America: The National Period.—This course deals with the empires and republics of Latin America after the Wars for Independence. Prerequisite: Twelve semester hours in history. Credit value: Three semester hours. (To be offered in 1940-1941.)
- 353f. A Survey of Political and Social Biltain from 1815 to 1895.—Tory England, the beginnings of reform, leaders and events in the making of modern Britain. Prerequisite: Twelve semester hours in history. Credit value: Three semester hours. (Omitted in 1939-1940; to be offered in 1940-1941.)
- 354s. Britain and the Empire from 1895 to the Present.—The Boer War, the Empire and foreign relations, the Liberal party and internal reform, the World War, the Treaty, Britain since 1919. Prerequisite: Twelve semester hours in history. Credit value: Three semester hours. (Omitted in 1939-1940; to be offered in 1940-1941.)
- 355f. History of the United States Since the Civil War, 1865-1900.—Reconstruction, industrial development and regulation, sectionalism, grangers, greenbackers, populism, silver crusade, passing of the frontier, civil service reform, rise of imperialism. Prerequisite: Twelve semester hours in history. Credit value: Three semester hours. (Omitted in 1939-1940; to be offered in 1940-1941.)
- 356s. Contemporary History of the United States, 1900 to the Present—Rise of the United States as a world power, growth of trusts, imperialism and world trade, progressivism, Roosevelt and Wilson, World War and reconstruction, Republican prosperity, depression and world unrest. Prerequisite: Twelve semester hours in history. Credit value: Three semester hours. (Omitted in 1939-1940; to be offered in 1940-1941.)
- 358s. The Old South.—Expansion, development, life and institutions of the southern United States from the late eighteenth century to the destruction of the old regime in the war for southern independence, 1861-1865. Prerequisite: Twelve semester hours in history. (Given in Summer Session of 1939.

#### Government

- 310fs and 10. American Government.—The government of the United States—national, state, and local—with special emphasis upon the Constitution of the United States and of Texas. Fulfills the legislative requirement of a course on the Constitutions of the United States and of Texas. Prerequisite: Sophomore standing. Credit value for 310: Three semester hours; for 10: Six semester hours.
- 330f. International Politics.—The principles and political problems involved in foreign policies and international relations of the states of the world with particular emphasis on nationalism and imperialism. Prerequisite: Government 310 and 311, or 10. Credit value: Three semester hours. (Given in 1939-1940; to be omitted in 1940-1941.)
- 331s. International Organization and Administration.—The development of the machinery and procedure of international government for the peaceful settlement of international disputes. Prerequisite: Government 310 and 311, or 10. Credit value: Three semester hours. (Given in 1939-1940; to be omitted in 1940-1941.)
- 334f. American National Government and Administration.—The making of the national government; the principles of the Federal system; Citizenship and Constitutional Rights; the organization of Congress; the National Executive and the National Court System. Prerequisite: Government 310 and 311, or 10. Credit value: Three semester hours. (Given in Summer session of 1939.)
- 335s. American National Government and Administration.—A general view of the powers of Congress: National Executive and National Court System; the organization, personnel and work of the Civil Service and of the Budget Bureau. Prerequisite: Government 310 and 311, or 10. Credit value: Three semester hours. (Given in Summer Session of 1939.)
- 343f. The Foreign Policies of the United States.—The historical development and present organization of the Department of State and of the Foreign Service; the nature of the foreign relations power and the conduct and control of American foreign relations. Prerequisite: Government 310 and 311, or 10. Credit value: Three semester hours. (Omitted in 1939-1940; to be offered in 1940-1941.)
- 344s. The Conduct of American Foreign Affairs.—The origin and development of fundamental principles of American diplomacy concerning neutrality, recognition, naturalization and expatriation, and promotion of trade and commerce with special attention devoted to post-war problems. Prerequisite: Government 310 and 311, or 10. Credit value: Three semester hours. (Omitted in 1939-1940; to be offered in 1940-1941.)

## Sociology

310fs. Introduction to the Study of Society.—The local social milieu and social institutions; the process and products of interaction; mechanism of interaction, competition, conflict, accommodation, assimilation; society and

the person; social control; social change; social movements. Prerequisite: Sophomore standing. Credit value; Three semester hours.

- 311fs. Social Pathology.—Physical and mental defectiveness considered from the sociological viewpoint: defects in social organization; poverty and dependency; pathology of personality. Social controls applied to social problems. Prerequisite: Sophomore standing. Credit vaue: Three semester hours.
- 3451. The Community.—Methods of studying the community; social anatomy; a comparative study of communities: analysis of the underlying forces and social successes which make for natural groups and institutions to meet industrial, religious, educational governmental, and leisure-time needs; disorganization and reorganization in modern communities. Prerequisite: Sociology 310 and 311. Credit value: Three semester hours. (Given in 1939-1940; to be omitted in 1940-1941.)
- 3471. Population Problems and Immigration.—Population movements and their social control; problems of population, distribution, and assimilation. Social questions attending the complex composition of the American people; an examination of the ethnic origin and racial characteristics of "old" and "new" immigrants, taking up the economic, political, and social aspects of their migration to America. Consideration of Americanization programs and immigration laws. Prerequisite: Sociology 310 and 311. Credit value: Three semester hours. (Omitted in 1939-1940; to be offered in 1940-1941.)
- 348s. Criminology.—Causes, characteristics, and relief of crime, with consideration of mental, physical, economic, and social factors in crime. Attention to the juvenile offender and the social agencies for his adjustment. A sociological analysis and evaluation of penal methods. Prerequisite: Sociology 310 and 311. Credit value: Three semester hours. (Omitted in 1939-1940; to be offered in 1940-1941.)
- 349f. The Family.—A study of the development of the family as a social institution. Emphasis is placed upon the American family and the problems which confront it today. Prerequisite: Sociology 310 and 311. Credit value: Three semester hours. (Given in 1939-1940; to be omitted in 1940-1941.)

## MATHEMATICS AND PHYSICS

Professor Knapp; Associate Professor Durkee; Assistant Professor Schwid Instructors Barnes, Leech, Liles, Resley

## **Mathematics**

803. Elementary Mathematical Analysis.—A course designed to give the student a good foundation for the study of calculus, the natural sciences, and engineering. The first two weeks are devoted to a review of algebra. Those students not possessing a good working knowledge of algebra at the end of this period are transferred to Mathematics 305. Four recitations. Credit value: Eight semester hours.

- 304fs. Mathematical Analysis.—An introductry course designed for academic students unifying the basic ideas of algebra, trigonometry, and analytical geometry by means of the function concept. Credit value: Three semester hours.
- 305fs. Algebra.—A review of secondary-school and intermediate algebra for engineering students whose background in this subject is deficient. Credit value: Three semester hours. (This course cannot be used as a prerequisite to either Mathematics 307 or Mathematics 309.)
- 30718. Mathematics of Investment.—An elementary course in the theory and application of the mathematics of finance. Topics covered include logarithms, progressions, simple and compound interest, annuities, amortization, perpetuities. Credit earned may be applied toward the mathematics requirement or elective hours for the B. A. degree. Prerequisite: Mathematics 304. Credit value: Three semester hours.
- 208fs. Solid Geometry.—Required of candidates for engineering degrees who do not present solid geometry for entrance. This course or high school solid geometry is required of all students beginning calculus. Counts toward academic degrees but not toward engineering degrees. Credit value: Two semester hours.
- 309fs. Mathematical Analysis.—A continuation of Mathematics 304 and designed for students who do not plan to take other courses in mathematics. Prerequisite: Mathematics 304. Credit value: Three semester hours.
- 13. Calculus.—In this course differential calculus and Integral calculus are carried on together. In differential calculus, special attention is given to the derivation of formulas and to the application of derivatives to the solution of problems in maxima, minima, rates, velocity, acceleration, and geometrical applications. The work in integral calculus drills the student in the integration of forms occurring in mechanics and physics; in evaluating areas, moments, moments of inertia, and volumes, in finding the center of gravity and center of stress; and in the derivation and application of the fundamental formulas of hydrostatics and hydraulics. Prerequisite: Mathematics 208 unless solid geometry is presented for entrance, and Mathematics 803. The last two semester hours of this course count as advanced. Three recitations. Credit value: Six semester hours.
- 325f. Calculus.—The topics of Mathematics 13 will be extended to include the differentiation and integration of a wider class of functions and the applications of these processes to the solution of a wider range of problems: series, approximations of definite integrals, partial differentiation, complex variables, elementary Fourier expansions, and an introduction to the differential equations. Prerequisite: Mathematics 13. Credit value: Three semester hours.
- 326s. Differential Equations.—A study of the common types of ordinary and partial differential equations of geometry, mathematics, and electricity. Prerequisite: Mathematics 13. Credit value: Three semester hours.

- 41. Analytical Mechanics.—Equilibrium and motion of a particle and rigid body in two and three dimensions. May be counted as six advanced semester hours in physics. Prerequisite: Mathematics 13 with a grade of C. Credit value: Six semester hours. (Given in 1939-1940; to be omitted in 1940-1941.)
- 333f. Theory of Equations.—Theory of polynomials, cubic and quartic equations, approximate methods, determinants, symmetric functions, and other topics. Prerequisite: Mathematics 13. Credit value: Three semester hours. (Given in alternate years; to be offered in 1940-1941.)
- 337s. Modern College Geometry.—A course in modern plane geometry involving an extension of some of the material of elementary geometry, together with an introduction to projective geometry. Properties of the triangle, properties of the circle, similitude, inversion, cross ratio, and principle of duality. Prerequisite: Mathematics 13. Credit value: Three semester hours. (Given in alternate years; to be offered in 1940-1941.)

### Physics

- 1. General Physics.—Three lectures and two laboratory hours. Laboratory fee, \$4. Credit value: Six semester hours.
- 12. Second-Year Physics.—First semester: light and heat; second semester: mechanics, electricity, magnetism, and sound. Prerequisite: Physics 1, and Mathematics 13 concurrently. Two lectures and three laboratory hours. Laboratory fee, \$4. Credit value: Six semester hours.
- 812. Physics: Mechanics, Heat, Electricity, and Magnetism.—Includes a thorough grounding in kinematics, dynamics, statics, kinetics, the elements of precision of measurements, properties of matter, thermometry, expansion, calorimetry, heat and work, change of state, vaporization, condensation of gases, radiation, magnetism, the magnetic field, magnetic induction, electrostatics, electrodynamics, radioactivity. Particular attention is given to composition and resolution of forces, accelerations, and velocities, to simple harmonic motion and to the moment of inertia. Prerequisite: Mathematics 13 concurrently. Three recitations and three laboratory hours. Laboratory fee, \$4. Credit value: Eight semester hours.
- 222s. Sound and Light.—Prerequisite; Physics 812. One lecture or recitation and three laboratory hours. Laboratory fee, \$2. Credit value: Two semester hours.
- 34. Electricity and Magnetism.—Advanced theory and laboratory work. Prerequisites: Physics 12 or 812, and Mathematics 13. Two lectures and three laboratory hours. Credit value: Six semester hours. Laboratory fee, \$4. (Given in alternate years. To be offered in 1940-1941.)
- Mathematics 41. Analytical Mechanics.—Equilibrium and motion of a particle and rigid body in two or three dimensions. May be counted as six advanced semester hours in physics. Prerequisite: Mathematics 13 with a grade of C. Credit value: Six semester hours (Given in 1939-1940; to be omitted in 1940-1941.)

### MINING AND METALLURGY

Professor Graham; Associate Professor Thomas

### Mining

- 310s. Mining Methods.—Prospecting, exploration, development, exploitation, explosives, breaking ground, drifting, shaft sinking, stoping, timbering, drainage, and ventilation of coal and metal mines. Prerequisite: Chemistry 311, Geology 1a, Drawing 302, and Physics 812a. Three lectures. Credit value: Three semester hours.
- 321f. Mining Methods.—Continuation of Mining 310. Prerequisite: Mining 310. Three lectures. Credit value: Three semester hours.
- 322s. Mine and Route Surveying.—Shaft plumbing, underground surveying, mapping of underground connections, surface surveying in connection with mineral claims, and all ordinary operations and calculations that the mine surveyor is called upon to perform. Theory and practical application of simple, reverse and compound curves; rights-of-way; cross-sections; and estimates. Prerequisite: Engineering 414 and Mining 321. Two lectures and three laboratory hours. Laboratory fee, \$2. Credit value: Three semester hours.
- 223s. Coal Mining.—The extraction, cleaning, and marketing of coal, and the manufacture of coke and collection of all the by-products are considered. Prerequisite: Mining 310. Two lectures Credit value: Two semester hours.
- 224. Mine Surveying.—Practical field course in mine surveying. A complete survey and map of one of the mines in the vicinity of the College are required. Students are required to pay all expenses for their transportation and board. Prequisite: Mining 322. Eight hours daily for two weeks immediately following the close of the Spring semester. Laboratory fee, \$2. Credit value: Two semester hours.
- 231s. Mining Hygiene.—Lectures and recitations. Prevention of communicable diseases, personal hygiene, public health, food, air, water, soil, ventilation, and heating, sewage disposal, garbage disposal, disinfection, camp sanitation, mine sanitation, prevention of industrial diseases. The course is supplemented by field work in sanitary surveys, and drawing of apparatus. The course also includes work in first aid and rescue work. Prerequisite: Junior standing. Two lectures. Credit value: Two semester hours.
- 260f. Mine Plant.—A detailed study of underground transport, hoisting plant, skips and cages, compressed air plant, rock drills, mechanical ventilation, and drainage. Emphasis is placed on calculation of problems in connection with choice of equipment. Prerequisite: Senior standing. Two lectures. Credit value: Two semester hours.
- 261s. Mine Plant.—A continuation of the work given in Mining 260. Prerequisite: Mining 260. One lecture and three laboratory hours. Laboratory fee, \$2. Credit value: Two semester hours.

- 262s. Mine Plant Design.—The student is required, from a sampled mine or drilling exploration, to determine the value of the property, select a mining system, choose suitable equipment, and write a detailed report. Prerequisite: Mining 260. Six laboratory hours. Laboratory fee, \$2. Credit value: Two semester hours.
- 367f. Management.—Mine examination, sampling, reporting, welfare, organization, financing, and other interesting management problems are considered in a lecture course given only to students who have senior standing in mining engineering options. Three lectures. Credit value: Three semester hours.
- 268s. Mining Law.—The principles governing contracts, liabilities of mine operators, compensation and insurance of workmen, and the laws and court decisions of the United States, Texas, and Mexico, so far as they relate to locations and acquirements of titles to mines, are carefully considered in course of lectures. Prerequisite: Senior standing in mining engineering options. Two lectures. Credit value: Two semester hours. (Given in 1939-1940: omitted in 1940-1941.)
- 269s. Management.—A continuation of the work given in Mining 367. Prerequisite: Mining 367. Two lectures. Credit value: Two semester hours.
- 074s. Mining Trip.—At the end of the Senior year, graduating Seniors spend the last two weeks of the second semester on a trip of inspection which will include visits to the mining and metallurgical departments of companies within the scope of the planned itinerary. In 1939 the class visited properties in New Mexico, Colorado, and Arizona, but the route selected will be governed by conditions existing at the time of the trip. Although this trip is not a credit course, it will be required for graduation. Prerequisite: Completion of the requirements for the Bachelor of Science degree by the end of the following fall semester. No credit, but required for graduation.

# Metallurgy

- 321f. General Metallurgy.—Introductory course covering a description of the various processes for treating all the ordinary metals, with a calculation of slags and furnace charges. Prerequisite: Chemistry 413, Physics 812, and Geology 316 and 217. Three lectures. Credit value: Three semester hours.
- 423s. Ore Dressing and Milling.—Study of the principles of crushing and grinding, amalgamation, concentration, and ore dressing. Prerequisite: Metallurgy 321. Three lectures and three laboratory hours. Laboratory fee, \$4. Credit value: Four semester hours.
- 325f. Non-metallics.—A survey course of the non-metallic and ceramic industries, not including coal, oil, or sulphur. Emphasis is placed upon the present economic utilization of, and possible future demands for, those minerals which are classed as non-metallic. Prerequisite: Metallurgy 321

must have been completed, or if not, must be taken concurrently. Two lectures and three laboratory hours. Laboratory fee, \$2. Credit value: Three semester hours.

- 252f. Principles of Copper Smelting.—In this course little attempt is made to study the mechanical features of copper smelting. The place of roasting, smelting, and refining in the pyrometallurgical reduction of a copper ore is given the primary attention, coupled with the calculation of furnace charges and slags. Offered subject to demand. Two lectures. Credit value: Two semester hours.
- 253s. Electric Furnaces.—A foundation course in electric smelting and the commercial applications of the electric furnace. Offered subject to demand. Two lectures. Credit value: Two semester hours.
- 3611. Iron, Copper, and Lead.—A study of the metallurgy of the three common metals. One-third of the course will be devoted to calculations pertaining to the above subjects. Prerequisite: Metallurgy 321. Three lectures. Credit value: Three semester hours.
- 261f. Iron, Copper, and Lead.—This course is intended for those students who select the mining option and is the same as Metallurgy 361 except that the calculations are omitted. Prerequisite: Metallurgy 321. Two lectures. Credit value: Two semester hours.
- 362f. Metallurgy of Leaching Processes.—Study of the chemical and physical properties of the metals and such of their compounds as are of importance in connection with the leaching processes; the cyanide process, and leaching methods employed in the metallurgy of copper, lead and zinc. Prerequisite: Metallurgy 321. Two lectures and three laboratory hours. Laboratory fee, \$2. Credit value: Three semester hours.
- 263f. Ore Dressing and Milling.—A continuation of Metallurgy 423. Prerequisite: Metallurgy 423. Two lectures. Credit value: Two semester hours.
- 364s, Metallurgical Laboratory.—In this course the student receives an individual problem, or problems, which he handles as research work. At times this work will consist of problems submitted to the College from various fields of metallurgy. Prerequisite: Metallurgy 361 and Metallurgy 362. Six laboratory hours. Laboratory fee, \$2. Credit value: Three semester hours.
- 264s. Metallurgical Laboratory.—This course handles part of the work covered by Metallurgy 364 and is intended for those students who wish to do some research work but cannot devote the time necessary for full credit toward graduation. Prerequisite: Metallurgy 361. Six laboratory hours. Laboratory fee, \$2. Credit value: Two semester hours.
- 265f. Ore Dressing and Milling.—Ore testing and mill design. Prerequisite: Metallurgy 263 in advance or concurrently. Six laboratory hours. Laboratory fee, \$2. Credit value: Two semester hours.
- 473s. Mctallography.—An elementary course in the metallography of various metals and products and the heat treatment of iron and steel.

Prerequisite: Metallurgy 321. Three lectures and three laboratory hours. Laboratory fee, \$4. Credit value: Four semester hours.

074s. Metallurgical Trip.—At the present time this trip will be taken with Mining 074. When it is to the best interests of the metallurgical students to deviate from the route of the Mining 074 trip, such changes will be made, but in the main the two trips will be taken together. Prerequisite: Completion of the requirements for the Bachelor of Science degree by the end of the following Fall semester. No credit, but required for graduation.

### MODERN LANGUAGES

## Professor Bachmann; Assistant Professors Avrett, Eldridge, Olmstead; Instructor Fineau

The admission requirement of two units is represented by Course A, which will not count toward a degree for students presenting two admission units in a modern language. Those with two units will enter Course 1a in the same language. For those presenting three units neither Course A nor Course 1a will count. Such students will enter Course 1b.

## French, German, Spanish

- A. Fundamentals of Grammar and Pronunciation.—Elementary grammar: reading of easy texts; dictation; oral drill; conversation. Credit value: Six semester hours.
- 1. Grammar, Reading and Composition.—Grammar review, written exercises, dictation, reading of intermediate texts. Outside readings with weekly conferences and reports. Prerequisite: Course A or two admission units in the language. Credit value: Six semester hours.
- 12. Intermediate Readings in the Modern Period.—Selected readings from the nineteenth and twentieth centuries. Some grammar review, reports, conferences and outside readings. Prerequisite: Course 1. Credit value: Six semester hours.

### French

- 335f. Modern Novel: Early Period.—Reading of eighteenth century novelists such as Lesage, L'abbe Prevost and Bernadin de St. Pierre and of 19th century novelists up to about 1850. Prerequisite: French 12. Credit value: Three semester hours. (Given in 1939-1940; to be omitted in 1940-1941.)
- 337s. Modern Novel: Later Period.—A study of the naturalistic school of novelists from Flaubert to Maupassant. Prerequisite: French 12. Credit value: Three semester hours. (Given in 1939-1940; to be omitted in 1940-1941.)

- 338f. Introduction to French Romanticism.—Reading of representative novels and plays by Hugo, de Vigny. Dumas Pere and Musset, etc. Prerequisite: French 12. Credit value: Three semester hours. (Offered in 1940-1941. Given in Summer Session of 1939.)
- 357s. Advanced Composition and Grammar Review.—A course recommended for prospective teachers. An intensive review of grammatical principles and idioms. Exercises in translation and free composition. Prorequisite: French 12. Credit value: Three semester hours. (Offered in 1940-1941. Given in Summer Session of 1939.)

## Spanish

- 301fs. Conversational Spanish.—A practical course designed for non-Spanish students who wish to acquire a fluent ability to express themselves in the language. Open to all students. Not counted toward fulfillment of requirements for the modern language majors. Credit value: Three semester hours.
- 13. Social and Business Usage.—Translation, composition, and conversational practice in the language of business and everyday life. Reading of texts, building up of practical vocabulary, and grammatical drill in essential constructions. This course is not intended for Spanish majors but is recommended for students who will not continue into courses in the literature. Prerequisite: Spanish 1. Credit value: Six semester hours.
- 328s. Golden Age Drama.—A study of the leading dramatists, such as: Lope de Vega, Tirso de Molina, Calderon de la Barca, Ruiz de Alarcon, Moreto, and others. Readings of selected masterpieces; outside readings and reports. Prerequisite: Spanish 12. Credit value: Three semester hours. (Given in 1939-1940; to be omitted in 1940-1941.)
- 332s. Classical Epoch Prose.—A study of the movements in the prose writings of the sixteenth and seventeenth centuries, such as: novelesque, chivalresque, picaresque, satirical, pastoral, mystic, etc. Readings of masterpieces; outside reading reports. Prerequisite: Spanish 12. Credit value: Three semester hours. (Given in 1939-1940; to be omitted in 1940-1941.)
- 334f. Early Epics and Ballads.—A study of the field of ballads and epics. Special emphasis on the epic heroes in the ancient ballads. Readings of special selections; outside readings and reports. Prerequisite: Spanish 12. Credit value: Three semester hours. (Given in 1939-1940; to be omitted in 1940-1941.)
- 335f. Modern Novel: Early Period.—A study of the trends in the development of the novel from the latter part of the eighteenth to the latter part of the nineteenth century. Readings from such authors as: Padre Isla, Fernan Caballero, Pedro Antonio de Alarcon, Juan Valera, Jose Maria de Pereda, Perez Galdos, etc.; outside reading reports. Prerequisite: Spanish 12. Credit value: Three semester hours. (Omitted in 1939-1940; to be offered in 1940-1941.)

- 336f. Modern Drama: Early Period.—A study of the trends in the development of the drama from the latter part of the eighteenth to the latter part of the nineteenth century. Readings from such dramatists as: Leandro Fernandez de Moratin, Martinez de la Rosa, Breton de los Herreros, Lopez de Ayala, Tamayo y Baus, etc.; outside reading reports. Prerequisite: Spanish 12. Credit value: Three semester hours. (Omitted in 1939-1940; to be offered in 1940-1941.)
- 337s. Modern Novel: Later Period.—A study of the trends in the development of the novel from the latter part of the nineteenth century to the present. Selected readings from such authors as: Pardo Bazan, Palacio Valdes, Blasco, Ibanez, Pio Baroja, Ricardo Leon, Perez de Ayala, etc.; outside reading reports. Prerequisite: Spanish 12. Credit value: Three semester hours. Omitted in 1939-1340; to be offered in 1940-1941.)
- 338. The Romantic Perlod.—A study of the development of romanticism in the literature of the early nineteenth century. Selected readings of such writers as: Espronceda, Jose de Larra, Duque de Rivas, Garcia Gutierrez, Hartzenbusch, Jose Zorilla, etc.; outside readings. Prerequisite: Spanish 12. Credit value: Three semester hours. (Given in Summer Session of 1939.)
- 340s. Modern Drama: Later Period.—A study of the trends in the development of the drama from the latter part of the nineteenth century to the present. Readings of representative works from such dramatists as: Echegaray, Perez, Galdos, Jacinto Benavente, Los Quinteros, Martinez Sierra, Eduardo Marquina, etc.; outside reading reports. Prerequisite: Spanish 12. Credit value: Three semester hours. (Omitted in 1939-1940; to be offered in 1940-1941.)
- 357f. Advanced Composition and Grammar Review.—A course recommended especially for teachers and language majors. An intensive review of grammatical principles, idiomatic usage and style. Exercises in translation and composition. Prerequisite: Spanish 12 or 13. Credit value: Three semester hours. (Given in 1939-1940; to be omitted in 1940-1941.)
- 358s. Contemporary Literature.—A consideration of the movements in contemporary literature, with study of representative authors of the various movements. Outside readings and reports. Prerequisite: Spanish 12. Credit value: Three semester hours. (Given in Summer Session of 1939.)

## MUSIC

## Assistant Professor Johnson; Instructor Roe

#### APPLIED

### Band

- 01. Ensemble.—Exercise materials for large and small groups; marching practice and maneuvers. Five hours per week throughout the year. This course may be substituted for Physical Training 01 or 02. Non-credit.
- 311. Ensemble.—More advanced exercise materials for large and small groups; continuation of marching exercise and maneuvers. Five hours per week throughout the year. Prerequisite: Music 01. Credit value: Three semester hours
- 321. Instrument Technique.—Specialized study of various instruments of the band with emphasis on solo material. Five hours per week throughout the year. Prerequisite: Music 311. Credit value: Three semester hours.
- 331. Instrumental Methods.—Study of instrumentation, concert materials, ensembles, management, and rehearsal procedure from standpoint of the director. Five hours per week throughout the year. Prerequisite: Music 321. Credit value: Three semester hours.

### Chorus

- **02.** Chorus Music.—Song materials of a type suitable for study purposes with emphasis placed on notation, phrasing, breathing, diction. Five hours per week throughout the year. Non-credit.
- 312. Chorus Music.—More advanced song materials with increased emphasis on correct singing. Five hours per week throughout the year. Prerequisite: Music 02. Credit value: Three semester hours.
- 322. Choral Ensemble Music.—Participation in smaller ensemble groups stressing vocal technique for the individual. Prerequisite: Music 312. Credit value: Three semester hours.
- 332. Choral Methods Music.—Methods in the presentation of various problems in choral direction, organization and management; serving as an advisory group to the officers of the Varsity Singers. Prerequisite: Music 322. Credit value: Three semester hours.

### Orchestra

- 03. Orchestra.—Concert and study materials of the class suitable to the individual students. Five hours per week throughout the year. Non-credit.
- 313. Orchestra.—More advanced studies as assigned by the Director. Prerequisite: Music 03. Credit value: Three semester hours.
- 323. Orchestra.—Chamber music group-studies for all instruments and solo literature for all instruments. Five hours per week throughout the year. Prerequisite: Music 313. Credit value: Three semester hours.

MUSIC 99

333. Orchestra.—The direction, organization, and management of school and civic orchestras. Study of instrumentation and baton technique. Five hours per week throughout the year. Prerequisite: Music 323. Credit value: Three semester hours.

## PUBLIC SCHOOL MUSIC

- 51. Music in the Elementary Grades.—This course, offered in the training of teachers and supervisors of Public School Music, includes the study of rote-singing and teaching methods, lesson preparation and presentation, and teaching-technique. The course is supplemented by other departments of the school. Prerequisite: Education 314 and 318; and Music 10 or consent of the instructor. Credit value: Six semester hours.
- 52. Music in the High School.—Instrumental and vocal teaching technique in the high school along with suggestions in motivating interest and in organizating bands and orchestras. Individual participation and special observations will provide the practical experience necessary. Prerequisite: Education 316 and 317, and Music 10 or consent of instructor. Credit value: Six semester hours.

### THEORY

- 1. Sight Singing and Ear Training.—This course includes the fundamentals of music such as scale building and writing; music notation, solfeggio; the singing of melodies at sight; two, three, and four-part singing; and the writing of melodies after hearing them played. Credit value: Six semester hours. (Offered in 1939-1940.)
- 10. First Course in Harmony.—This course includes the study of scales, intervals, elementary chord formation, primary and secondary triads, dominant and secondary sevenths, melody writing, harmonization of melodies, study of cadential combinations including many of the important chord forms throughout the major and minor keys. Prerequisite: Music 1, or Sophomore standing and consent of instructor. Credit value: Six semester hours.
- 20. Advanced Harmony.—This course includes the study of ninth, eleventh, and thirteenth chords; altered chords derived from the interchange of mode, and the Neopolitan sixth; and augmented harmonies, transition, modulation, and further work in keyboard harmony. Prerequisite: Music 10. Credit value: Six semester hours. (To be omitted in 1940-1941.)
- 30. History and Appreciation of Music.—The development of music from the earliest writers to the modern composers is included in this course in conjunction with a study of the major operatic and symphonic works. Prerequisite: Music 10. Credit value: Six semester hours. (To be offered in 1940-1941.)
- 40. Counterpoint.—This course is a study of the melodic tones; melody formation; two, three, and four-part counterpoint in all species; invertible counterpoint; canonic imitation; and original writing in the contrapuntal

forms. Prerequisite: Music 10. Credit value: Six semester hours. (To be omitted in 1940-1941.)

50. Theory and Practice of Conducting.—A course meant primarily for individuals interested in the direction of either instrumental or choral organizations. It consists of detailed study and analysis of instrumental and vocal scores besides practical application of laws governing the baton. Prerequisite: Twelve semester hours of music or Music 10. Credit value: Six semester hours.

### PHILOSOPHY AND PSYCHOLOGY

#### Professor Roth

## Philosophy

- 312f. Logic.—Introduction to essentials of correct thinking: deductive and inductive reasoning; fallacies and argumentation. Recommended for students majoring in science or preparing for the study of law. Prerequisite: Sophomore standing. Credit value: Three semester hours. (Given in 1939-1940; to be omitted in 1940-1941.)
- 314f. Problems of Philosophy.—An introduction to the main general problems of philosophy such as those of matter, mind, life, truth and value; the field of philosophy with its relation to the special sciences and to scientific method is stressed. Prerequisite: Sophomore standing. Credit value: Three semester hours. (Omitted in 1939-1940; to be offered in 1940-1941.)
- 315s. Ethics.—Introductory survey of the evolution of moral codes and ideals; reflective morality; conduct and character; conflicts of Interests; personal and social ethics. Prerequisite: Sophomore standing. Credit value: Three semester hours. (Omitted in 1939-1940; to be offered in 1940-1941.)
- 316s. Philosophic. of Life.—Study of the various classical philosophies of life from the point of view of their moral, religious, and aesthetic values. Prerequisite: Sophomore standing. Credit value: Three semester hours. (Omitted in 1939-1940; to be offered in 1940-1941.)
- 317s. The Philosophy of Civilization.—A comprehensive study of man's social, economic and ethical development as viewed in the light of the contributions of the modern sciences. His place in the world today, and his potential future destiny will be evaluated. Prerequisite: Sophomore standing. Credit value: Three semester hours. (Given in 1939-1940; to be omitted in 1940-1941.)

## Psychology

310fs. Introductory Psychology.—A survey of the field of general psychology. Prerequisite: Sophomore standing. Credit value: Three semester hours.

- 311s. Fields of Psychology.—Survey of genetic, animal, abnormal, social and applied psychology: mental measurements and experimental methods. Prerequisite: Psychology 310. Credit valve: Three semester hours. (Given in 1939-1940; to be omitted in 1940-1941.)
- 316s. Business Psychology.—A study of the psychological factors and principles involved in modern business, industry, marketing, advertising and salesmanship. Prerequisite: Psychology 310. Credit value: Three semester hours. (To be offered in 1940-1941.)
- 3201. The Psychology of Personality.—A study of the fundamental traits of personality, their origin, development and control; maladjustments and disorders of the personality and their treatment. Prerequisite: Psychology 310, and three additional semester hours of either philosophy or psychology. Credit value: Three semester hours. Formerly Psychology 319. (Given in 1939-1940; to be offered in 1940-1941.)
- 344s. Mental Hygiene.—Prerequisite: Six semester hours in psychology, or in philosophy, or in both. Credit value: Three semester hours. (Given in 1939-1940; to be offered in 1940-1941.)

#### **DEGREES CONFERRED IN JUNE, 1939**

Bachelor of Science in Mining Engineering

Bardsley, Bernard Bohn Benson, Robert J. Harris, George Edward Mitcham, Tom W. Montague, Harry Lee Morales D., Arturo M.

Perez O., Nicolas Prado R., Enrique Schaefer, Cesar Arroyo Valencia, Samuei Valdes Lopez, Evaristo Vega, Arnulfo

#### Bachelor of Arts

Adams, Agnes Leighton Barlow, Emily Cornelia Barnes, Margaret C. Bess, Virginia Rose Bickley, Rachel Anne Black, Wilma Francelle Boyer Mildred G. Pradt, Estelle Josephine Burciaga Z., Estella Camp, Frances Danforth Camp, Jennie Lynn Coulehan, Lee Cunningham, Annabelle Davis, Roy Newell Erickson, Vivian Annette Franklin, Susan Elizabeth Gonzalez, Graciela Gore, Herbert Carr Hackett, Barbara Ann Heid, Mrs. Lilly Belle G. Hernandez, Tony Higdon, Rosemary Hill, Alleen Catherine Holley, Minnetta M. Hunnicutt, Mary Scott Johnson, Frances Elizabeth Johnson, Juanita Johnson, Lloyd Seamon Kaffer, Jeanne

Lackland, Nancy Lavender, Eunice Lee, Edith Mae Llcon, Francisco
Lyon, Mary Eleanor
McCormick, Francis William
McDonnell, Margaret Mier, Carlos Moore, Albert Ross Nalley, Hardy Clifford Newman, Tom Blachley Page, Sallie Paredes, Peter Albert, Jr. Peden, Jack Prieto, Philip M. Rathbun, Lavonne Oneth Resley, Louise Fletcher Rice, Virginia Robinson, Mary Josephine Roper, Maxine E. Sanders, Virgil Tappan, Marion Frances Teague, Keith MacCallum Thompson, Helen MacPherson Turner, Mary Frances Vazquez, Alfredo G. Williams, Alva Ruth Willis, Joe Sam Zlabovsky, Esther

Zollars, Fannilee

### **DEGREES CONFERRED IN AUGUST, 1939**

#### Bachelor of Science in Mining Engineering

Hungerford, Merle Ross, Jr.

Quevedo Q., Alberto.

#### Bachelor of Arts

Arms, Homer
Arnold, Ira C.
Atkinson, Esther F.
Banks, Mary Ella
Bibo, Bernice
Blythe, Olive
Boehm, Frederick Peter
Bowman, Dale
Campos, Francisco Jose
Cashon, Edwin T.
Cox, Maple K.
Fernandez, Abraham, Jr.
Fleming, Ellinor
French, Alice W.
Geer, Adella Cochrane
Guthrie, Julia Ann Dannenberg
Howard, William Freeman
Lancoster, Jonathan
Lassiter, Virginia Anne

Light, Ellen Macpherson
Loomis, Eliza Berrien
Martin, Margaret Wrona
Mulcahy, Mary Catherine
Newman. Frances Montague
Niland, Ada Sandefer
Perez, Porfirio
Phillips, Sallie
Porter, David Knox, Jr.
Rainey, Helen Walsh
Reynolds, Melville
Robinson, Patricia Avis
Scotten, Wilma Cleavenger
Simpson, Nell Frances
Stevens, Margaret Olive
Thomas, Louise B.
Tinnin, Lee R.
Watson, Mary McGee
Wiser, Ortella Lenora

Long Session, 1938-39

| Abadie, Robert Austin                                | Barton, John Richard El Paso-   |
|--|---------------------------------|
| Abbott, Tom, El Paso                                 | Barwise, Marjorle El Paso       |
| Abbott, William El Paso                              | Baughman, Don C Yuma, Arizona   |
| Abrego, Alfredo El Paso                              | Beahler, Lee, El Paso           |
| Acason, Gloria, El Paso                              | Real, Grace El Paso             |
| Adams, Agnes El Paso                                 | Bean, Willis El Paso            |
| Adams, Mrs. Elizabeth El Paso                        | Beard, Bettle El Paso           |
| Adkins, Thomas El Paso                               | Beaty, John El Paso             |
| Akeroyd, Edward El Paso                              | Becker, John A., Jr El Paso     |
| Akeroyd, Margaret El Paso                            | Beckham, Vance Wickett          |
| Alden, Catalina El Paso                              | Beckham, Vivian N Wickett       |
| Alderete, Francisco El Paso                          | Bell, Edward, Jr., El Paso      |
| Alexander, Mrs. E El Paso                            | Beltz, Geraldine El Paso        |
| Alsup, Ed E Madill, Oklahoma                         | Bemis, George C., Jr El Paso    |
| Alton Noel El Paso                                   | Benish, Joe El Paso             |
| Alvillar, Ruben F El Paso                            | Benjamin, Elsie El Paso         |
| Amis, Frank E Ysleta                                 | Bennett, Efa Lou El Paso        |
| Anderson, Mrs. J. E El Paso                          | Benson, Robert El Paso          |
| Andre, Lois El Paso                                  | Berryhill, Richard El Paso      |
| Andre, Ruth El Paso                                  | Bess, Lillian El Paso           |
| Andresen, Winnifred El Paso                          | Bess, Virginia El Paso          |
| Apodaca, A. G Ysleta                                 | Betancourt, Serge El Paso       |
| Apodaca, Jessie Ysleta                               | Bevan, Donald El Paso           |
| Arguelles, Fernando El Paso                          | Beys, George El Paso            |
| Armagnac, Martin El Paso                             | Bickley, Rachel El Paso         |
| Arms, Homer . Sulphur, Oklahoma                      | Biggs, Irene El Paso            |
| Arnold, Ira C Roscoe                                 | Black, Bill El Paso             |
| Arnold Katherine Marathon                            | Black, Buddy El Paso            |
| Arnold, Lafe El Paso                                 | Black, Donald El Paso           |
| Arnold, Lu Venia El Paso                             | Black, Focha El Paso            |
| Arredondo, Cecilio El Pase                           | Black, Gordon El Paso           |
| Arredondo, Concha El Paso                            | Black, Kate El Paso             |
| Arroyo, Cesar El Paso                                | Black, Wallace, El Paso         |
| Arroyo, Robert El Paso                               | Black, Wilma El Paso            |
| Asmann, Margaret El Paso                             | Blackmon, Jack Abilene          |
| Atkinson, Mrs. Esther . El Paso                      | Blackwell, Jack El Paso         |
| Atria, N. F El Paso                                  | Blalock, Clovis El Paso         |
| Attel, George El Paso                                | Pledsoe, Robert El Paso         |
| Austin, George El Paso                               | Plount, Wanda Jo El Paso        |
| Avila, Salvador . Santa Rita, N. M.                  | Blythe, Olive El Paso           |
| Bacher, Mrs. Opal El Paso                            | Boehm, Fred El Pasc             |
| Bagge, Louise El Paso                                | Boland, Beth El Paso            |
| Bailey, La Berta El Paso                             | Bolling, Jack Austin            |
| Baird, Ruth El Paso                                  | Bomberger, Hilda El Paso        |
| Ealenti, Mike Altus, Oklahoma                        | Bonaguida, Loraine El Paso      |
| Ealenti, Richard , Altus, Oklahoma                   | Borders, Jimmie El Paso         |
| Ball, Mrs. George H El Paso                          | Borunda, Joe El Paso            |
| Eanks, Mary Ella El Paso                             | Boudreaux, Emile El Paso        |
| Barber, Treman /                                     | Bowden, Mary Elizabeth Fabens   |
| Oklahoma City, Okla.                                 | Bowers, Carl Odessa             |
| Earboglio, Pete El Paso                              | Eowling, Bob , Leroy, Alabama   |
| Bardsley, Bernard, El Paso                           | Bowman, Dale El Paso            |
| Barlowe, Emily El Paso                               | Bowman, Meta El Paso            |
| Barnes, Margaret El Paso                             | Boyd, Dan El Paso               |
| Barrett, Frank El Paso                               | Eoyd, Hershel Crane             |
| Farrett, Fred, Jr., Tulsa, Okla. Barrett, Joe Temple | Boyer, Mildred El Paso          |
| Barron, Jack El Paso                                 | Bradley, Jack El Paso           |
| Barrueta, Alfonso El Paso                            | Bradshaw, Mary Frances, El Paso |
| Darracia, Altonso El Paso                            | Bradt, Estelle J El Paso        |

| Branch, Bill El Paso            | Chavez, Rufina El Paso                      |
|---------------------------------|---|
| Britt, Harry Amarillo           | Chesnut, Dewey Penwell                      |
| Brock, Winnifred El Paso        | Chew, Antonio El Paso                       |
| Frown, Edgar                    | Chew, C. L El Pasc                          |
| San Luis Potosi, Mexico         | Chilton, Bert Odessa                        |
| Brown, J. B El Paso             | Clark, Frances Jane El Paso                 |
| Brown, Kenneth Clarendon        | Clark, Harold El Paso                       |
| Brown, Lyle El Paso             | Clark, Mary Young El Paso                   |
| Brown, Paul El Paso             | Clark, Robert El Paso                       |
| · <del></del>                   | Clausewitz, Erlwood , San Antonio           |
| Brown, Peggy El Paso            |   |
| Brummett, Milton El Paso        | Cleaveland, Earl El Paso                    |
| Bryan, W. Joe, Jr El Paso       | Clifford, Hugh El Paso                      |
| Bryant, David Stephenville      | Cobos, Oscar El Paso                        |
| Bryant, Robert R El Paso        | Cobos, Victor El Paso                       |
| Bryars, Wanga El Paso           | Coggeshall, Louise El Paso                  |
| Buchholz, Oscar El Paso         | Cole, J. Fred, Jr Clint                     |
| .Bulos, Jesus, El Paso          | Collins, Bill El Paso                       |
| Burchell, Margo El Paso         | Compton, Bobble Houston                     |
| Purciaga, Carmen El Paso        | Conner, Millard, Dothan, Alabama            |
| Burciaga, Estella El Paso       | Connor, Leonard El Paso                     |
| Burdette, Jack El Paso          | Cook, C. W El Paso                          |
| Burgard, Pete El Paso           | Cook, Jean Ysleta                           |
| Burrus, Constance Ysleta        | Copenhaver, Mary El Paso                    |
| Burtis, Mrs. Emma El Paso       | Coppedge, Elna El Paso                      |
| Bush, Mary Elizabeth El Paso    | Cordero, Francisco M El Paso                |
| Byers, John William El Paso     | Cordova, Gabriel El Paso                    |
| Calderhead, Bill El Paso        | Corona, Aurora El Paso                      |
| Calhoun, Sam El Paso            | Cottingim, Dee El Paso                      |
| Cameron, Bruce El Paso          | Cotton, George Palestine                    |
| Camp, Fannie El Paso            | Cotton, Russell Palestine                   |
| Camp, Jennie El Paso            | Coulehan, Lee El Paso                       |
| Campbell, Doris El Paso         | Cox, Esther El Paso                         |
| Campbell, William Ysleta        | Cox, Maple El Paso                          |
| Campos, Jose El Paso            | Cozby, Joe El Paso                          |
| Cantrill, Jack El Paso          | Crabtree, Margaret El Paso                  |
| Cantu, Luis Juarez, Mexico      | Crabtree, Marion El Paso                    |
|                                 | Cram, John G El Paso                        |
| Caplinger, Mrs. Alice El Paso   | Cranor, Evelyn El Paso                      |
| Carbajal, O. Henry Fabens       | Cravens, Marjorie J El Paso                 |
| Carlsen, Flora El Paso          | Crimen, Jenny Bob El Paso                   |
| Carlson, Robert El Paso         | Crimen, John C., Jr El Paso                 |
| Carlton, Julia El Paso          | Crockett, Pearl El Paso                     |
| Carlton, Paul El Paso           |   |
| Caro, Manuel El Paso            | Crosby, Ruby El Paso<br>Cross, R. R La Tuna |
| Carpenter, Alfred J El Paso     |   |
| Carpio, Federico Juarez, Mexico | Cross, Virginia La Tuna                     |
| Carrasco, David El Paso         | Crowe, Edward E Pecos<br>Cuen, M. J El Paso |
| Carrasco, Mike El Paso          |   |
| Carrera, Julius El Paso         | Cunningham, Annabelle . El Paso             |
| Carrera, Phillip El Paso        | Cunningham, R. E El Paso                    |
| Casey, Doyle El Paso            | Curtiss, Patty El Paso                      |
| Cashon, Ed Hornbeak, Tenn.      | Cuthbertson, Louis Kilgore                  |
| Casillas, Richard El Paso       | Daeuble, Thomas El Paso                     |
| Casner, Mary Ellen El Paso      | Dalton, Edward La Tuna                      |
| Casteel, Martha El Paso         | Daly, Henry M., Jr Presidio                 |
| Chalmers, Henry B               | Daniel, John Newton El Paso                 |
| Brooklyn, N. Y.                 | Darnall, Virginia El Paso                   |
| Chancey, Mrs. Edna El Paso      | Davalos, Hannibal El Paso                   |
| Chapin, John L El Paso          | Davalos, William El Paso                    |
| Chaparro, Miguel El Paso        | Davenport, James El Paso                    |
| Chapman, Lydia El Paso          | Davis, Anne                                 |
| Chapman, Christine El Paso      | Davis, Frank Matador                        |
| Chapman, Mrs. W .T El Paso      | Davis, Jim El Paso                          |
| Chappell, Dorothy Lee El Paso   | Davis, R. L., Jr., El Paso                  |
| Chavez, Oscar El Paso           | Davis, Roy El Paso                          |
|                                 |   |

| Davis, Thelma Lee Sierra Blanca        | Fisher, Mrs. Lovella El Paso-    |
|--|----------------------------------|
| Dawson, Jean El Paso                   | Fleming, Ellinor El Paso         |
| Dean, Charles Plainview                | Flores, Alfredo El Paso-         |
| Dean, Mrs. Helen El Paso               | Flores, Louis Fabens             |
| de la Garza, Jesus                     | Floyd, Marsena El Paso-          |
|  | Footer Appotts El De-            |
| Douglas, Arizona                       | Foester, Annette El Paso-        |
| de Leon, Alfredo El Paso               | Folk, Robert G El Paso           |
| Delgado, Pablo El Paso                 | Foote, Janet El Paso             |
| Dell, Lloyd, Auburn Heights, Mich.     | Forbes, Frank El Paso            |
| del Sobral, Daniel El Paso             | Force, Charlotte El Paso-        |
| del Valle, Salvador El Paso            | Force, James A., Jr El Paso-     |
| Des Autels, Phebe El Paso              | Ford, William E El Paso          |
| Desmond, Vincent, Brooklyn, N. Y.      | Foreman, Bill El Paso            |
| Des Saulles, Dorothy La Tuna           | Foreman, George El Paso          |
|  | Foret, Mrs. Belle El Paso        |
| Dew, Joe K Ysleta                      | Forgetho Form                    |
| De Witt, Albert El Paso                | Forsythe, Fern San Antonio-      |
| Dickenson, Mrs. Helen El Paso          | Fox, Edna El Paso                |
| Dixon, R. M La Tuna                    | Franco, Jesus El Paso            |
| Dockray, Grace El Paso                 | Francy, C. Jane El Paso          |
| Dominguez Francisco El Paso            | Franklin, Anna El Paso           |
| Donoho, Charles Austin                 | Franklin, Joanna El Paso         |
| Dorris, Estelle El Paso                | Franklin, Susan E El Paso        |
| Dorris, Loris Troup                    | Franks, Edward El Paso-          |
| Douglas, Earl El Paso                  | Fresquez, Jose Ysleta.           |
|  | Fuentes, Charles El Paso-        |
| Downey, Jane El Paso                   | Fugate Coorge El Dese            |
| Dreasher, C. H La Tuna                 | Fugate, George El Paso-          |
| Drees, Betty B El Paso                 | Fuller, Seale El Paso            |
| Drehner, Dorothy El Paso               | Gaal, George El Paso             |
| Duffy, Laurence El Paso                | Gabbert, D. K El Paso            |
| Duke, Jack El Paso                     | Gabriel, Charles El Paso         |
| Duncan, Jane Ysleta                    | Gaddy, James El Paso             |
| Duncan, Wayne El Paso                  | Gage, William Austin             |
| Dupree, Joe El Paso                    | Gaither, Doyle El Paso           |
| Duthie, Larry El Paso                  | Galbraith, Helen El Paso         |
| Duty, Eddle Mae El Paso                | Galindo, Mrs. Isis El Paso       |
| Duty, Lucile El Paso                   | Gallagher Ann El Paso            |
|  |                                  |
| Earp, Mrs. Pine Mae El Paso            | Callup Kannoth Cult              |
| Echaniz, Eugene El Pase                | Callup, Kenneth Clint            |
| Echlin, Bob El Paso                    | Garcia, Armando El Paso          |
| Eden, George El Paso                   | Garcia, Esequiel El Paso         |
| Elkin, Margaret El Paso                | Garcia, Jorge                    |
| Ellis, Jack El Paso                    | Chlhuahua City, Mexico.          |
| Ely, Mrs. Maude El Paso                | Garcia, Jose El Paso             |
| Emerson, R. J El Paso                  | Garcia-Nunez, Margarita, El Paso |
| Emery, Waldo El Paso                   | Garner, Ruth, Abilene            |
| Erickson, Vivian El Paso               | Gary, Wilma El Paso              |
| Escudero, Enrique El Paso              | Garza, Harry Floresville-        |
| Espinosa, Juan, Jr El Paso             | Gatlin, Allison San Antonio      |
| Espinosa, Lorenzo El Paso              | Gavaldon, Jesus El Paso.         |
| Fuberly Delet to Trans                 | Goog Adollo El Des-              |
| Eubanks, Ralph La Tuna                 | Geer, Adella El Paso             |
| Evans, Sam Jack, Jr Waco               | Gehring, Alice El Paso           |
| Evans, Ward Tulsa, Oklahoma            | Gentry, Mrs. Mary Nell El Paso-  |
| Ezquerra, Baldomero El Paso            | Gerwels Richard                  |
| Feeback, Josephine El Paso             | Tacoma, Washington               |
| Feeback, Virginia El Paso              | Gibson, Evelyn El Pase           |
| Fenton, Claude Odessa                  | Gibson, Harland El Paso          |
| Fenton, La France Odessa               | Gibson, Jane El Paso             |
| Ferguson, Betty Jule El Paso           | Gilchrist, George El Paso        |
| Fernandez, Abraham El Paso             |                                  |
| Fernandez, Elena El Paso               | Gill, Jack El Paso               |
| Fernandez Martin Fl Dore               | Gish, Charles El Paso            |
| Fernandez, Martin El Paso              | Goldfarb, Bill El Paso           |
| Fernandez, William El Paso             | Gonzales, Andy El Paso           |
| Fino, Ben El Paso                      | Gonzalez, Graciela El Paso       |
| Fish, Mrs. Iren <sub>e</sub> B El Paso | Goodman, Paula El Paso-          |
|  |                                  |

| Gordon, Stan El Paso             | Hefner, O. W., Jr Hico         |
|----------------------------------|--------------------------------|
| Gore, Herbert El Paso            | Heid, Mrs, Lilly Belle El Paso |
|                                  | Hell, Babette El Paso          |
| Gorham, George El Paso           |                                |
| Grant, Joyce El Paso             | Heineman, Kenneth El Paso      |
| Grant, Ruby El Paso              | Heinzel, Jack El Paso          |
| Graves, Donald El Paso           | Helsig, Shirley El Paso        |
| Graves, Raymond El Paso          | Heller, Isaac El Paso          |
|                                  | Hellweg, Ralph El Paso         |
| Gray, Thomasine El Paso          |                                |
| Green, Marjorie El Paso          | Hemley, Allen El Paso          |
| Greening, Virginia Kress         | Hemley, Barbara El Paso        |
| Gregory, Harold J Garland        | Henderson, Clark Toyah         |
| ·Criffin, Peggy Lou El Paso      | Hendon, Juanita El Paso        |
|                                  |                                |
| Grooms, Virginia El Paso         | Hendricks, Charlee El Paso     |
| Grubbs, Esperanza Marta          | Hermann, Arthur El Paso        |
| Gruber, Doris El Paso            | Hernandez, Fred El Paso        |
| Gruber, Juanita El Paso          | Hernandez, Tony El Paso        |
| Guernsey, Dick El Paso           | Herrera, Albert M El Paso      |
|                                  |                                |
| "Guerrero, Alicia El Paso        | Herring, Amelia Clint          |
| Guffey, John El Paso             | Hershey, Donovan El Paso       |
| ·Guinn, J. S El Paso             | Hershey, Maude V El Paso       |
| Gutierrez, Rafael B El Paso      | Hesler, John El Paso           |
| Baas, Werner . Monterrey, Mexico | Hicks, John A., Jr El Paso     |
|                                  |                                |
| Hackett, Barbara El Paso         | Higdon, Rosemary El Paso       |
| Haddad, Alice El Paso            | Higdon, Therese El Paso        |
| Haisley, Claude Taft             | Higgins, Gertrude El Paso      |
| Haisley, Kathryn El Paso         | Hill, Aileen El Paso           |
| Hall, Arthur El Paso             | Hill, Garnet R La Tuna         |
|                                  |                                |
| Hall, Darrell El Paso            | Hill, Howard El Paso           |
| Hall, Darwin El Paso             | Hines, Elizabeth Ann El Paso   |
| Hall, Robert L El Paso           | Hinton, Mary Blair! El Paso    |
| Hamlyn, Derothy El Paso          | Hoard, Roy El Paso             |
| Hamlyn, Richard El Paso          | Hodges, Mildred El Paso        |
| Hammonds, Clyde El Paso          | Hodges, Ralph El Paso          |
|                                  | Hoffer, Elizabeth El Paso      |
| Hanigan Marie El Paso            |                                |
| Haninger, Harriett El Paso       | Holley, Minnetta El Paso       |
| Hanna, Mrs. Ethel El Paso        | Holmes, Mrs. Annie El Paso     |
| Hanna, Mary Jane El Paso         | Holmes, Thomas El Paso         |
| Hanson, Nellle El Paso           | Howard, Ralph El Paso          |
| Haraway, Jasper El Paso          | Howard, William El Paso        |
| Hardcastle, Hazel B El Paso      | Howe, Henry, Jr El Paso        |
|                                  | Howell, Emma Jean El Paso      |
| Hardy Cleo El Paso               |                                |
| Hare, Donald A El Paso           | Howell, Marion Chase El Paso   |
| Hargrove, Nell El Paso           | Howle, Loyle El Paso           |
| Harmon, Billye Lee El Paso       | Hubbard, Edwin El Paso         |
| Harmon, Lee El Paso              | Hudson, Bill El Paso           |
| Harper, Estelle El Paso          | Hudson, Jack El Paso           |
| Harper, James El Paso            | Huff, Henry El Paso            |
|                                  |                                |
| Harrell, Christine, El Paso      | Huffman, D La Tuna             |
| Harris, Mrs. Esther El Paso      | Hughes, Sue El Paso            |
| Harris, Gary El Paso             | Hughes, Winifred El Paso       |
| Harris, George El Paso           | Hungerford, Merle, Jr El Paso  |
| Harris, Mozelle El Paso          | Hunnicutt, Bobbie El Paso      |
| Harrison, J. E El Paso           | Hunnicutt, Scottie El Paso     |
|                                  | Hunt, Jack El Paso             |
| Harshbarger, John W              |                                |
| Myerstown, Pa.                   | Hunter, Lester El Paso         |
| Hart, James A El Paso            | Hunter, Quenton Canton         |
| Hatch, Merle El Paso             | Hutchins, Helen El Paso        |
| Haughton, Rosemary El Paso       | Hyatt, Chester La Tuna         |
| Hawkins, Mary Virginia           | Hyland, Eunice D El Paso       |
|                                  | Ibarra, Rafael B El Paso       |
| Hayes, Nell El Paso              | Indermuehle, Lloyd R El Paso   |
|                                  | Isensee, Marjorie El Paso      |
| Hays, Alice El Paso              | Tool Repute C T = Tool         |
| Hays, Eugene El Paso             | Insl. Frank C La Tuna          |
| Hazelton, George El Paso         | Ivey, Rosalie E' Paso          |
| Healy, Jack El Paso              |                                |

| Jabalie, Lilly El Paso                                | Lancaster, Jonathon Van Horn                                 |
|---|--|
| Jackson, Dorothy El Paso                              | Lance, John F El Paso  |
| Jackson, Sue El Paso                                  | Lance, Donald El Paso  |
| Jameson, Mrs. Naomi El Paso                           | Lane, Ray El Paso  |
| Jeffers, Robert E La Tuna                             | Lange, June El Paso  |
| Jenkins, Mervyn El Paso                               | Lanler, Betty Sue El Paso-                                   |
| Jenness, Bennie Houston                               | Landsdowne, Jean El Paso                                     |
| Jenness, Harry El Paso                                | Ta Porte, Alma El Paso                                       |
| Jenness, Richard El Paso                              | Lassetter, Jean El Paso                                      |
| Johnsen, Arnie (Guy)                                  | Lassetter, Robert El Paso                                    |
|   | Lassiter, Newton El Paso                                     |
| Johnson, Betty El Paso                                | Lassiter, Virginia El Paso                                   |
| Johnson, Bill El Paso<br>Johnson, F. W El Paso        | Lavender, Eunice El Paso-                                    |
|   | Lawless, Raymond El Paso                                     |
| Johnson, Haskell Lee El Paso<br>Johnson, Jane El Paso | Lee, Mrs. Edith El Paso                                      |
| Johnson, Juanita Crockett                             | Leeser, David, Chihuahua, Mexico                             |
| Johnson, L. C Kermit                                  | Leininger, Mary Anne El Paso                                 |
| Johnson, Lloyd S Ysleta                               | Leon, Heracleo El Paso                                       |
| Johnson, Rankin El Paso                               | Leonard, Jeanne Claire . El Paso-<br>Lickel, William El Paso |
| Johnston, Joe Granbury                                | Licon, Francisco El Paso                                     |
| Jones, Betty El Paso                                  | Light, Ellen El Paso   |
| Jones, Frances El Paso                                | Light, Hilda El Paso   |
| Jones, Grayce El Paso                                 | Lind, Mrs. L. A El Paso                                      |
| Jones, Jack El Paso                                   | Lindlof, Ed El Paso  |
| Jones, Wm. Richard El Paso                            | Lindlof, Mary Louise El Paso                                 |
| Joseph, George El Paso                                | Link, Felice El Paso   |
| Jourdan, Everitt El Paso                              | Livingston, Morgan El Paso                                   |
| Joyner, Marie El Paso                                 | Lizarraga, Ligia El Paso                                     |
| Kaffer, Jeanne El Paso                                | Lizarraga, Servando El Paso                                  |
| Kahn, Louis El Paso                                   | Long, Betty Barbara El Paso                                  |
| Kannady, Jack Temple                                  | Loomis, Mrs. Eliza El Paso                                   |
| Kelly, Josephine El Paso                              | Lott, Ellison El Paso  |
| Keltner, Edwarda El Paso                              | Love, Mrs. Myrtle El Paso                                    |
| Kemp, Betty Joe El Paso                               | Love, Tom El Paso  |
| Kennedy, Jane El Paso                                 | Lozano, Rafael El Paso                                       |
| Kilgore, Charles El Paso                              | Luckett, Joe Knippa  |
| Kerley Bernard Ysleta                                 | Lynch, Donald Ray, Arizona                                   |
| Key, Oren El Paso                                     | Lynch, Sue Jean El Paso                                      |
| King, Charles El Paso                                 | Lyon, Eleanor El Paso  |
| King, George Dallas                                   | Lyon, Robert El Paso   |
| King, James El Paso                                   | Lyons, Peggy El Paso   |
| King, Jimmy El Paso                                   | McAdec. Fay El Paso  |
| Kirby-Smith, Selden El Paso                           | McAllister Warren Tuxedo                                     |
| Kissel, Marianne El Paso                              | McCall Martha Mae El Paso                                    |
| Kitson, Nancy El Paso                                 | McAlmon, Peter El Paso                                       |
| Klabock, Beatrice El Paso                             | McCabe, Donald El Paso                                       |
| Knight, Marguerite El Paso                            | McCallick, Hugh Fl Paso                                      |
| Knipps, August El Paso                                | McCamant, Sue El Paso  |
| Knowles, Robert El Paso                               | McCann, Leo Midland  |
| Kobold, Dotty El Paso<br>Korenek, F. A La Tuna        | McCarty, Jack El Pase  |
| Kornfeld, Leonard El Paso                             | McClure, Jim El Paso   |
| Kozloske, Martha El Paso                              | McConachie, Mrs. Phyllis, El Paso                            |
| Kranzthor, Terry El Paso                              | McCord, Frank El Paso  |
| Krebs, John Odessa                                    | McCutchan Nell El Page                                       |
| Kremith, Bobble El Paso                               | McCutchan, Nell El Paso McDonald Betty El Paso               |
| Kriechbaum, James El Paso                             | McDonald, Betty El Paso<br>McDonnell, Ada El Paso            |
| Lacey, Birda Mae El Paso                              | McDonnell, Margaret El Paso                                  |
| Lackland, Nancy El Paso                               | McKee, Margaret El Paso                                      |
| Lambert, Cy El Paso                                   | McKenzie, Gene El Paso                                       |
| Lambert, Joe El Paso                                  | McKenzie, Mary El Paso                                       |
| Lambeth, J. D El Paso                                 | McKenzie, Pauline Marfa                                      |
| Lampert, Fred El Paso                                 | McKinney, Mrs. W El Paso                                     |
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| McKinzie, Etheridge Monahans                             | Mitchell, Mary Ann El Paso                        |
|--|---|
| McMillan, Joe Waelder                                    | Mitchell, Theodosia El Paso                       |
| McNail, Elizabeth El Paso                                | Mithoff, Richard El Paso                          |
| McNail, Thelma El Paso                                   | Monroe, Donald El Paso                            |
| McNiel Guy El Paso                                       | Monroe, Ruth El Paso                              |
| McNiel, Mary Jane El Pasc                                | Montague, Marie Dallas                            |
| McTier, Frank El Paso                                    | Montague, Harry El Paso                           |
| MacFarlane, Sheila El Paso                               | Montgomery, Harold Houston                        |
| Machado, Manuel El Paso                                  | Mooney, Patricia Ann Ysleta                       |
| Macias, Elias Santa Rita, N. M.                          | Moore, Bert C Doniphan, Mo.                       |
| Madland, R. D El Paso                                    | Moore, D. C Van Horn                              |
| Maiorana, Frank Houston                                  | Moore, Harry, Jr El Paso                          |
| Malone, Mrs. Larette El Paso                             | Moore, Jean El Paso                               |
| Mangan, Frank El Paso                                    | Moore, Paul B Fort Worth                          |
| Manker, Hazel Ann El Paso                                | Moore, Richard El Paso                            |
| Manning, Julia El Paso                                   | Moore, Ross Sarepta, La.<br>Moore, Wesley El Paso |
| Maros, Mike Fabens                                       | Mora, Salvador El Paso                            |
| Marshall, Grady, Denver, Colorado                        | Morales, Arturo El Paso                           |
| Marston, Margaret El Paso<br>Martin, James R El Paso     | Morales, Victor El Paso                           |
| Martin, John E El Paso                                   | Moreno, Arturo El Paso                            |
| Martin, Margaret El Paso                                 | Morkin, Mrs. E. Dowd El Paso                      |
| Martin, Mrs. Mary El Paso                                | Morris, Bert El Paso                              |
| Martin, Mary Alyce El Paso                               | Morris, Dorothy Faye El Pasc                      |
| Martin, Peggy El Paso                                    | Morrow, M. W La Tuna                              |
| Martin, Robert El Paso                                   | Morrow, Virginia El Paso                          |
| Martinez, Eliodoro El Paso                               | Morton, Amelia El Paso                            |
| Martinez, Jane El Paso                                   | Mosley Harold El Paso                             |
| Martinez, Luis El Paso                                   | Moussier, Maria                                   |
| Martinez, Maria El Paso                                  |   |
| Martinez, Rosita El Paso                                 | Moye, Edwin El Paso                               |
| Martinez, Victor El Paso                                 | Mueller, Albert T El Paso                         |
| Mason Helen . Huntsville, Ala.                           | Mueller, Emil J El Paso                           |
| Matheson, Riley . Hedrick, Okla.                         | Mueller, William El Paso                          |
| Maurice, James Odessa                                    | Mulcahy, Catherine El Paso                        |
| Maxwell, Norris El Paso                                  | Munoz, F. Nicolas El Paso                         |
| Maya, Manuel El Paso                                     | Murphy, Bob El Paso                               |
| Mayfield, Geraldine El Pasc<br>Mayfield, William El Paso | Murphy, Frances El Paso<br>Nalley, Hardy Dallas   |
| Medina, Jose F El Paso                                   | Nance, Bennie Alma El Paso                        |
| Medrano, Edmundo El Paso                                 | Nance, Billie Louise El Paso                      |
| Moek, Dids Lamesa  | Napoles, Cecilia El Paso                          |
| Melendez, Jose El Paso                                   | Nash, Jackie El Paso                              |
| Mellard, June El Paso                                    | Nations, Hildon El Paso                           |
| Mendoza, J. R., Chihuhhua, Mexico                        | Navarro, Victor El Paso                           |
| Merrell, William Martin                                  | Naylor, James El Paso                             |
| Hale Center  | Neece, Richard, Jr El Paso                        |
| Metcalfe, Juanita El Paso                                | Neely, Margaret El Paso                           |
| Meyer, Wilma El Paso                                     | Neeson, Jim El Paso                               |
| Mier. Carlos El Paso                                     | Negrete, Rafael Juarez, Mexico                    |
| Miller, A. R., Jr Fabens                                 | Nelson, Lleyd A., Jr El Paso                      |
| Miller, Mrs. E. E El Paso                                | Neugebauer, Eugene El Paso                        |
| Miller, Frances El Paso                                  | Newman, Frances El Paso                           |
| Miller, Harry Huntsville                                 | Newman, Tom El Paso                               |
| Miller, Howard El Paso                                   | Newton, Mrs. C. D El Paso                         |
| Miller, Richard Dallas                                   | Nichols, Lawrence Victoria                        |
| Miller, W. E El Paso                                     | Niland, Mrs. Ada El Paso                          |
| Mills, Charles El Paso                                   | Nordin, Windsor El Paso<br>Nordwald, Ruth El Paso |
| Mills, Julian El Paso                                    |   |
| Miskimins, Harry El Paso                                 | North, C. L El Paso<br>Norwood, Margaret El Paso  |
| Miskimins, Ruth El Paso<br>Mitcham, Tom El Paso          | Oden, Altanell El Paso                            |
| Mitcham, Robert El Paso                                  | O'Leary, Albert El Paso                           |
| Mitchell, Clarence, Jr El Paso                           | Cison, John W El Paso                             |
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| O'Neal, Emma El Paso                         | Puente, Victor El Paso                            |
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| O'Neal, Kermit El Paso                       | Pugh, Wilford M Wink                              |
| O'Neill, Suste El Paso                       | Quesada Jesus El Paso                             |
| Oppenheim, Charles El Paso                   | Quevedo, Albert El Paso                           |
| Oppenheim, Clarence                          | Quick, Miriam El Paso                             |
| Juarez, Mexico                               | Quiroz, Benjamin , El Paso                        |
| Ornelas-G., Catalina El Paso                 | Rainey, Helen, El Paso                            |
| Ortiz, Ignacio Juarez, Mexico                | Raines, Jean Keytesville, Mo.                     |
| Overlock, L. C El Paso                       | Rains, Marjorie El Paso                           |
| Page, Annie El Paso                          | Ramos, Filemon El Paso                            |
| Page, Sallie El Paso                         | Rancich, G. A Fabens                              |
| Pajari, Raymond El Paso                      | Ramsey, Henry El Paso                             |
| Palm, Irene El Paso                          | Randall, Bill El Paso                             |
| Pankey, James Tulsa, Okla.                   | Randel, Mrs. Maggle El Paso                       |
| Paredes, Felipe El Paso                      | Raney, Morris Temple                              |
| Paredes, Peter El Paso                       | Rathbun, Lavonne El Paso                          |
| Parham, Ralph El Paso                        | Ravel, Mrs. Maxwell El Paso                       |
| Parrish, Joe El Paso                         | Reagan, Bruce W El Paso                           |
| Patton, Mary Jane El Paso                    | Reed, Joyce El Paso                               |
| Paul, Bob El Pase                            | Reed, Sam H El Paso                               |
| Paxton, Mavis El Paso                        | Redd, Raymond El Paso                             |
| Pearce, L. I Anson                           | Reese, Audaine Lampasas                           |
| Peevey, Katherine Marfa Pell, George El Paso | Reinemund, Gretchen El Paso                       |
| Pendley, Claude Dallas                       | Resley, Louise F El Paso<br>Reynolds, Mel El Paso |
| Penick, Earline Houston                      | Reynolds, William, Jr El Paso                     |
| Penick, Robert Houston                       | Kheinheimer, Emille El Paso                       |
| Pennell, Mary J El Paso                      | Riba, Robert El Paso                              |
| Pennington, Barry Georgetown                 | Rice, Robert J El Paso                            |
| Perez, Charles El Paso                       | Rice Virginia El Paso                             |
| Perez, Nicolas El Paso                       | Rike, William El Paso                             |
| Perez Porfirio El Paso                       | Rindom, Virgil El Paso                            |
| Perez, Soleded El Paso                       | Rinehart, Tiffany El Paso                         |
| Perry, Paul El Paso                          | Rister, Eugene El Paso                            |
| Peterson, Dorothea El Paso                   | Ritter, Robert El Paso                            |
| Peterson, Walter El Paso                     | Roberts, Clodine El Paso                          |
| Phillips, Jack El Paso                       | Roberts, Danora El Paso                           |
| Phillips, Lillian El Paso                    | Roberts, Florine El Paso                          |
| Phillips, Sallie El Paso                     | Roberts, Mildred                                  |
| Pierce, Wendell L El Paso                    | Zacatecas, Mexico                                 |
| Pillow, Mrs. Lucille El Paso                 | Roberts, Walton El Paso                           |
| Pitman, James Leon Kermit                    | Robinson, Gene El Paso                            |
| Pitts, Howard El Paso                        | Robinson Madden El Paso                           |
| Polk, Thomas El Paso                         | Robinson, Mary Jo El Paso                         |
| Ponsford, Florence El Paso                   | Robinson, Mrs. Patricla El Paso                   |
| Porsford, Olga El Paso                       | Robinson, Richard El Paso                         |
| Porras, Mario El Paso Porter, David Coleman  | Roden, Mildred El Paso                            |
| Forter, Vayne El Paso                        | Rodgers, Nell El Paso<br>Rodgers, Pollard El Paso |
| Poske, Alma El Paso                          | Rodriguez, Bertha El Paso                         |
| Poske, Jane El Paso                          | Rodriguez, Mildred El Paso                        |
| Potash, William El Paso                      | Rodriguez, Salvador El Paso                       |
| Prade, Frank El Paso                         | Rogde, Margaret El Paso                           |
| Prado, Enrique El Paso                       | Rojas, Ramon El Paso                              |
| Prati, Joe, Jr El Paso                       | Roman, Jose El Paso                               |
| Price, Dick El Paso                          | Romo, Estela El Paso                              |
| Price, John E El Paso                        | Romo, Lillian El Paso                             |
| Price, Joseph V El Paso                      | Roper, Maxine El Paso                             |
| Price, Lorez M El Paso                       | Roper, Mont O El Paso                             |
| l'rice, Owen F Chicago, Ill.                 | Rose, Mrs. Grace El Paso                          |
| Prieto, Juan El Paso                         | Rosenbaum, Arthur El Paso                         |
| Prokachl, Robert Kermit                      | Rosenberg, Corinne El Paso                        |
| Prothro, Dorls El Paso                       | Rosenberg, Sam El Paso                            |
| Pruitt, French El Paso                       | Roslyn, Mrs. Margaret El Paso                     |
|  |   |

| Ross, Charlie El Paso                 | Sowell, Horace W., Jr El Paso   |
|---------------------------------------|---------------------------------|
| Rouse, Mrs. Marie El Paso             | Sowers, S. G El Paso            |
| Rowdabaugh, Marshall                  | Spar, Morton Monticello, N. Y.  |
| Warsaw, Ind.                          | Sparks, Betty Anne El Paso      |
| Ryan, Fred El Paso                    | Sparks, Ruth M El Paso          |
|                                       | Spence, Wm. S El Paso           |
| Sackett, Bernice El Paso              | Stablein, Betty El Paso         |
| Sadowsky, Julius Van Horn             | Stacy, Jim El Paso              |
| Saenger, Omarie El Paso               | Stansbury, H. F La Tuna         |
| Saffold, Bill El Paso                 |                                 |
| Saffold, Marian El Paso               | Stanton, Lawrence El Paso       |
| Salas, Rosendo Juarez, Mexico         | Stark Betty El Paso             |
| Salcedo, Gilbert El Paso              | Starr, Leona Marathon           |
| Saldana, Nicanor El Paso              | Stevens, Margaret El Paso       |
| Sanders, Mrs. Charm El Paso           | Stewart, Mrs. Alyne El Paso     |
| Sanders, Edward El Paso               | Stewart, Bob El Paso            |
| Sayklay, Sam El Paso                  | Stewart, Mrs. Mary V Canutillo  |
| Scarborough, Catherine . El Paso      | Stewart, Olive El Paso          |
| Scegraves, Margie El Paso             | Stice, Kenneth Marietta, Okla.  |
| Schermerhorn, W. A La Tuna            | Stiles, Ray El Paso             |
| Schroeder, Martha E                   | Stoker, Mrs. Eryline El Paso    |
| Wilmington, Calif.                    | Stover, Raymond El Paso         |
| Scott, Nancy El Paso                  | Stowe, Jimmie Lou El Paso       |
| Scotten, Mrs. Wilma El Paso           | Stirman, Marlon W El Paso       |
| Serna, Guana El Paso                  | Strain, Mrs. W. S El Paso       |
| Serrano, Armando El Paso              | Stringer, William W El Paso     |
| Serrano, Joe El Paso                  | Strout, Albert El Paso          |
| Shamaley, John El Paso                | Stubblefield, Dorothy Canutillo |
| Shamaley, Lee El Paso                 | Stubblefield, Jackle Canutillo  |
| Shannon, Brady                        | Stull, Charles El Paso          |
| Elephant Butte, N. M.                 | Sullivan, Patrick G El Paso     |
| Shapleigh, Eliot El Paso              | Sundquist, Gus El Paso          |
| Shapleigh, Robert El Paso             | Sundquist, Theima El Paso       |
| Sharp, Addle Jo El Paso               | Sweeney, Helen El Paso          |
| Shepard, Carl Huntsville              | Sweeney, Joe U., Jr El Paso     |
| Sherman, Maurice El Paso              | Szrulyovics, Ernest El Paso     |
| Sherman, Ray El Paso                  | Tappan, David El Paso           |
| Sherwood, Clarice El Paso             | Tappan, Marion El Paso          |
| Shively, Russell El Paso              | Taylor, Allen Gainesville       |
| Shoopman, Billie Odessa               | Taylor, Charlie Victoria        |
| Silva, Hector El Paso                 | Taylor, Edwin El Paso           |
| Silva, Roy El Paso                    | Taylor, Floyd El Paso           |
| Silver, Henrietta El Paso             | Taylor, Raymond El Paso         |
| Simon, Joseph El Paso                 | Teague, Keith El Paso           |
| Simpson, Andrew R El Paso             | Teague, Mrs. Mildred El Paso    |
| Simpson, Nell Frances . Lamesa        | Telles, Raymond La Tuna         |
| Skaggs, Patty M El Paso               | Terrazas, Alfredo El Paso       |
| Skeen, Lucille Carlsbad, N. M.        | Terrazas, Nick El Paso          |
| Skiff, Josephine El Paso              | Thacker, Fred El Paso           |
| Slauter, Lee El Paso                  | Thomas, Cecil Thorp Spring      |
| Sleet, Harwell El Paso                | Thompson, Betty El Paso         |
| Smith, Cecil Grapeland                | Thompson, Gerald El Paso        |
| Smith, Frank El Paso                  | Thompson, Mrs. Helen El Paso    |
| Smith, J. Morgan                      | Thorne, John El Paso            |
|                                       | Thurston, Marjorie El Paso      |
| Smith Mary Frances El Paso            | Tiller, Lela El Paso            |
| Smith, Maurine E El Paso              | Tillery, Carol El Paso          |
| Snelson, Marshall, Monahans           | Tillman, Juanice El Paso        |
| Snider, Robert El Paso                | Tinnin, Lee El Paso             |
| Soforo, Oscar El Paso                 | Tolbert, T. P La Tuna           |
| Solomon, Jack El Paso                 | Tole, Bill El Paso              |
| Sorensen, Harry El Paso               | Tomlin, Betty Jeanne El Paso    |
| Surensen, Jeanne El Paso              | Toone, Herbert Esperanza        |
| Soucek, Effie El Paso                 | Toone, James Esperanza          |
| Soucek, Mae Ed Paso                   | Tracht, Jocelyn El Paso         |
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|---|---|
| Trevino, Salvador                                       | Wnite, James H El Paso                                |
| Mexico City, Mexico                                     | Whitlock, R. A., Jr El Pasc                           |
| Trueblood, Margaret El Paso                             | Wickstead, Mrs. Angelina, El Paso                     |
| Turner, Diana El Paso                                   | Wilbourn, Donald El Paso                              |
| Turner, Mary Frances El Paso                            | Wilbourn, Martha El Paso                              |
| Twining, John El Paso                                   | Wileman, Alice El Paso                                |
| Twiss, Frances El Paso                                  | Wiley, Howard B El Paso                               |
| Unsell, Virginia El Paso                                | Williams, Arthur                                      |
| Upperman, Joyce El Paso                                 | Zacatecas, Mexico                                     |
| Valdes, Evaristo El Paso                                | Williams, Athalie Nell . El Paso                      |
| Valencia, Elva El Paso                                  | Williams, Betty Jo El Paso                            |
| Valencia, Samuel El Paso                                | Williams, Charley El Paso                             |
| Valentino, Alfred El Paso                               | Williams, C. L., Jr El Paso                           |
| Van Doren, Donald El Paso                               | Williams, Dorothy M El Paso                           |
| Vargas, Jose El Paso                                    | Williams, Frances E El Paso                           |
| Vasquez, Eduardo El Paso                                |   |
| Vazquez, Alfredo El Paso                                | Williams, Lelaroy El Paso                             |
| Vega, Arnulfo El Paso                                   | Williams, Oliver Ee Paso                              |
| Vega, Tony El Paso                                      | Williams, Ruth El Paso                                |
|   | Williamson, Byron Canutillo                           |
| Vermillion, John H El Paso                              | Williamson, Nolan El Paso                             |
| Vesey, Gladys El Paso                                   | Willie, Winifred El Paso                              |
| Vigil, Victor El Paso                                   | Willis, Joe Sam El Paso                               |
| Villareal, Federico                                     | Wilmoth, Wilma El Paso                                |
| Monterrey, Mexico                                       | Wilson, Gordon, Ft. Towson, Okla.                     |
| Villareal, Rodolufo                                     | Wilson, Jane El Paso                                  |
| Wines Bestte  | Wilson, Hugh Beverly                                  |
| Vinson, Benita El Paso                                  | Gulfport, Miss.                                       |
| Vinson, David El Paso                                   | Wilson, Louise El Paso                                |
| Walbridge, Mary Lee Ysleta.<br>Walker, Clarence El Paso | Wilson, Mary El Paso                                  |
|   | Wilson, Ned El Paso                                   |
| Walker, Lytle R El Paso                                 | Wilson, Mrs. Olga El Paso                             |
| Walker, Maurine Kerens Walker, Rosemary El Paso         | Wimberly, Charles Plainview                           |
| Walsh, Elizabeth El Paso                                | Winans, F. Newton El Paso                             |
| Wardy, Jim El Paso                                      | Windberg, Anne El Paso                                |
| Warne, Betty El Paso                                    | Wintroub, S. Z El Paso                                |
| Warren, Hosea Hico                                      | Wiser, Ortella El Paso<br>Withers, Kenneth L El Paso  |
| Watson, Mrs. John El Paso                               |   |
| Watson, Mrs Mary El Paso                                | Wolter, Kathryn El Paso                               |
| Watzke, Donald El Paso                                  | Womack, Leandra El Paso                               |
| Watzke, Richard El Paso                                 | Womack, Paul, Jr El Paso Wong, John El Paso           |
| Webel, Herman El Paso                                   |   |
| Webel, Kenneth E El Paso                                | Woodley, Dorothy El Paso<br>Worle, Fred El Paso       |
| Webel, Lewis El Paso                                    | Wosika, Leon El Paso                                  |
| Wehner, Bill  |   |
| Weiller Harold El Paso                                  | Wright, Margaret Terrell Wright, Nanyree Throckmorton |
| Wells, Louise El Paso                                   | Wright, Stanley Monahans                              |
| Wentz, Frank Big Spring                                 | Yapor, Mike El Paso                                   |
| Werley, Richard El Paso                                 | Yeager, Gilbert El Paso                               |
| West, Dorothy Louise El Paso                            | Young, Forrest El Paso                                |
| West, Elizabeth El Paso                                 | Zea, Oscar Mexico, D. F.                              |
| West, Margaret El Paso                                  | Zent, A. F La Tuna                                    |
| Weyerts, Lucille El Paso                                | Zimmer, Harry, Jr El Paso                             |
| Whisenhunt, Nellie El Paso                              | Zlabovsky, Esther El Paso                             |
| Whitaker, Mary El Paso                                  | Zlabovsky, Julia El Paso                              |
| White, Betty El Paso                                    | Zollars, Fannilee El Paso                             |
| White, Jack El Paso                                     | Zozaya, Jose El Paso                                  |
|   |   |

Summer Session, 1939

| Abbott, Tom El Paso                | Brownfield, Jane El Paso         |
|------------------------------------|----------------------------------|
| Abrego, Alfredo El Paso            | Brulay, Mrs. Glory El Paso       |
| Acason, Gloria El Paso             | Bryan, W. Joe El Paso            |
| Adams, Mrs. Elizabeth El Paso      | Bryant, David Stephenville       |
| Alderete, Francisco El Paso        | Bryars, Wanga El Paso            |
| Allen, Mrs. Della J El Paso        | Buchholz, Oscar El Paso          |
| Alton, Noel El Paso                | Buck, Mrs. Susan El Paso         |
|                                    | Buie, John H Corsicana.          |
| Andresen, Winnifred El Paso        |                                  |
| Apodaca, Jessie El Paso            | Bush, Mrs. Sue El Paso           |
| Arms, Homer El Paso                | Byfield, Ada El Paso             |
| Arnold, Ira El Paso                | Byler, Lois El Paso              |
| Arredondo, Cecilio El Paso         | Calhoun, Samuel El Paso          |
| Arroyo, Robert El Paso             | Calisch, Charles El Paso         |
| Atkinson, Mrs. Esther El Paso      | Campos, Jose El Paso             |
| Attel, George El Paso              | Cantu, Luis Juarez, Mexico       |
| Avila, Salvador, Santa Rita, N. M. | Caplinger, Mrs. Alice El Paso    |
| Azar, Shibley El Paso              | Carlsen, Flora El Paso           |
| Babcock, Clarence Fort Davis       | Carlson, Robert El Paso          |
| Bagge, Mrs. Louise El Paso         | Carlton, Julia El Paso           |
| Ball, Thomas El Paso               | (aspenter, Alfred El Paso        |
| Eallentine, Kelly Ysleta           | Carrasco, Eliseo El Paso         |
| Baltz, Don El Paso                 | Carrera, Philip El Paso          |
| Banks, Mary Ella El Paso           | Cashon, Ed El Paso               |
| Barber, Treman                     | Casner, Mrs. Mary E El Paso      |
| Oklahoma City, Okla.               | Cassidy Frances El Paso          |
| Pardwell, Mrs. Esther La Tuna      | Chalmers, Henry B New York       |
| Barger, Mrs. Eleanor El Paso       | Chesak, W. J El Paso             |
| Barnes, Mrs. Marguerite . El Paso  | Chew, Antonio El Paso            |
|                                    |                                  |
| Barnett, Mrs. Alma El Paso         | Clark, Rollin F El Paso          |
| Barrett, Frank El Paso             | Cobos, Oscar El Paso             |
| Barron, Jack El Pasc               | Cobos, Victor El Paso            |
| Barrueta, Alfonso El Paso          | Cochran, Frankie Lee El Paso     |
| Barton, Mrs. May El Paso           | Cole, Lillian El Paso            |
| Barwise, Marjorie El Paso          | Connor, Leonard El Paso          |
| Beahler. Lee El Paso               | Coppedge, Elna M El Paso         |
| Bell, Edward, Jr El Paso           | Cordova, Gabriel El Paso         |
| Bell, Nelda El Paso                | Cotton, Russell Palestine        |
| Bemis, George El Paso              | Cox, Maple C El Paso             |
| Bennett, Mrs. Efa Lou El Paso      | Cox, Wilmoth El Paso             |
| Bibo, Mrs. Bernice El Pasc         | Crabtree, Margaret El Paso       |
| Black, Kate El Paso                | Crombie, Bill El Paso            |
| Black, Mrs. Louise El Paso         | Curtiss, Mrs. Virginia El Paso   |
| Black, William El Paso             | Daniel, John N El Paso           |
| Rion, Robert El Paso               | Davenport, James El Paso         |
| Bluth, Mrs. Veva El Paso           | Davis, Adalay El Paso            |
| Blythe, Mrs. Olive El Paso         | Davis, Mrs. Edna El Paso         |
| Boehm, Fredrick El Paso            | Davis, James F El Paso           |
| Bomberger, Hilda El Paso           | Davis, R. L El Paso              |
| Borders, Jimmie El Paso            | Davis, Thelma Lee, Sierra Blanca |
| Porunda, Carlota El Paso           | Daugherty, Mrs. Emily El Paso    |
| Bowden, Mary Elizabeth Fabens      | Dean, Charles Plainview          |
| Bowman, Dale El Paso               | de Leon, Alfredo El Paso         |
| Bowman, Meta El Paso               | del Sobral Daniel El Paso        |
| Braden, Mrs. Barbara El Paso       | del Valle, Salvador El Paso      |
|                                    | Dennis, Mrs. Elizabeth El Paso   |
| Branch, Bill El Paso               |                                  |
| Bretz, Beatrice El Paso            | Denny, Mrs. Maude El Paso        |
| Brick, Bernice El Paso             | Diaz, Oscar H Juarez, Mexico     |
| Bridgers, Mrs. Rowena El Paso      | Dickerson, Mrs. Lucile El Paso   |
| Brown, Lyle El Paso                | Dolman, Mrs. Louise El Paso      |
|                                    |                                  |

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|-----------------------------------|---|
| Douglass, Earl El Paso            | Healy, Jack, El Paso                        |
| Dowell, Mrs. Mary El Paso         | Heffield, Tallulah El Paso                  |
| Duke, Margaret Louise . Canutillo | Heineman, Kenneth El Paso                   |
| Duthie, Larry El Paso             | Heinzel, Jack El Paso                       |
| Larp, Mrs. Pina Mae El Paso       | Hemley, Allen El Paso                       |
| Echlin, Bob El Paso               | Hemley, Barbara El Paso                     |
| Eden, George El Paso              | Hernandez, Fred El Paso                     |
|                                   |   |
| Fdwards, H. T El Paso             | Hernandez, Tony El Paso                     |
| Elfers, Mrs. Nancy El Paso        | Herron, Irene El Paso                       |
| Ellis, Jack El Paso               | Hester, Mrs. Essye El Paso                  |
| Esterly, Wilson El Paso           | Higdon, Therese El Paso                     |
| Feehack, Josephine El Paso        | Hignett, Mrs. Mary L El Paso                |
| Feeback, Virginia El Paso         | Hinkle, Mrs. Madge El Paso                  |
| Ferguson, Eula Mae Laredo         | Hines, Elizabeth Ann El Paso                |
| Fernandez, Abraham El Paso        | Hoard, Roy El Paso                          |
| Fernandez, MartinEl Paso          | Holcombe, Bob El Paso                       |
| Fernandez, William El Paso        | Holcombe, Margie El Paso                    |
| Fields, Sarah Clint               | Holguin, Dora El Paso                       |
| Fisher, Mrs. Lovella El Paso      | Holmes, Mrs. Annie Mary, El Paso            |
| Fleming, Ellinor El Paso          | Howard, William El Paso                     |
| Fletcher, Dick El Paso            | Howle, Loyle El Paso                        |
| Foester, Annette E El Paso        | Hughes, Sue El Paso                         |
| Forbes, Frank El Paso             | Hunnicutt, Bobbie El Paso                   |
| Foret, Mrs. Belle El Paso         | Hunt, Jack El Paso                          |
| Foster, Mrs. Inez El Paso         | Hunt, Mrs. Leola El Paso                    |
| Francy C. Jane El Paso            | Husbands, Dove El Paso                      |
| French, Mrs. Alice El Paso        | Hutchins, Helen El Paso                     |
| Fresquez, Jose A Ysleta           | Hyland Eunice El Paso                       |
| Gaddy, James El Paso              | Irvin, Hallie El Paso                       |
| Gage, William Austin              | Isensee, Marjorie El Paso                   |
| Gaither, Doyle El Paso            | Jackson, Sue El Paso                        |
| Galindo, Mrs. Isis El Paso        | Jameson, Mrs. Naomi El Paso                 |
| Garcia, Armando El Paso           | Johnston, Mrs. Cornelia . El Paso           |
| Garcia, Jose El Paso              | Jones, Mrs. Elsie El Paso                   |
| Geer, Mrs. Adella El Paso         | Jones, Grayce El Paso                       |
| Gehring, Alice El Paso            | Jones, J. P El Paso                         |
| Gibson, Evelyn El Paso            | Kahn, Lovis El Paso                         |
| Gibson, Harland Arbon, Idaho      | Kannady, Jack Temple                        |
| Gillespie, Mrs. Dorothy . El Paso | Kelly, Bob . Mexico City, Mexico            |
| Gilreath, Mrs. Josephine, El Paso | Kemp, Betty Joe El Paso                     |
| Grady, Annie El Paso              | Kemp, James H El Paso                       |
| Graves, Mrs. Eva El Paso          | Kendall, Karl El Paso                       |
| Graves, Raymond El Paso           | Kennedy, Jane El Paso                       |
| Gray, Thomasine El Paso           | Kennedy, Ruth El Paso                       |
| Gregg, Brooks El Paso             | Kerley, Daniel Ysleta                       |
| Griffin, Marguerite El Paso       |   |
| Grubbs, Mrs. Esperanza. El Paso   | Key, Oren W El Paso King, Charles D El Paso |
| Gruber, Doris El Paso             |   |
| Gruber, Juanita El Paso           |   |
| Guernsey, Dick El Paso            | Kissel, Marianne El Paso                    |
| Guthrie, Mrs. Julia El Paso       | Klabock, Beatrice El Paso                   |
|                                   | Knotts, Margaret El Paso                    |
| Gutierrez, Rafael El Paso         | Kremith, Betty El Paso                      |
| Hall, Mrs. Mabel El Paso          | Kremith, Kenneth El Paso                    |
| Hall, Robert El Paso              | Krupp, Carlyn El Paso                       |
| Hamlyn, Dorothy El Paso           | Lambeth, J. D El Paso                       |
| Hamlyn, Richard Louis . El Paso   | Lancaster, Jonathon El Paso                 |
| Hardie, Liddie El Paso            | Lanier, Betty El Paso                       |
| Harper Mrs. Estelle El Paso       | La Porte, Mrs. Alma El Paso                 |
| Harrel, Christine El Paso         | La Roe, Dorothy El Paso                     |
| Harris, Mrs. Esther El Paso       | Lassiter, Virginia El Paso                  |
| Harrison, Mrs. Josephine, El Paso | Lawless, Raymond El Paso                    |
| Hart, Mrs. M. Laura , El Paso     | Lefkovitz, Mildred El Paso                  |
| Hays, Alice El Paso               | Leiper, Mrs. Ruth El Paso                   |
| Hays, Eugene El Paso              | Leonard, Jeanne Claire . El Paso            |

| Levy, Harold C El Paso                                 | Mustain, Mrs. Alice El Paso                               |
|--|---|
| Lickel, William El Paso                                | Myers, Alice Jean Fabens                                  |
| Lind, Jack Mexico, D. F.                               | Narrance, Mrs. Dorothy, El Paso                           |
| Liffman, Rolf El Paso                                  | Nash, Jacqueline El Paso                                  |
| Light, Ellen El Paso                                   | Naylor, James El Paso                                     |
| Lind, Mrs. Lillian El Paso                             | Neugebauer, Eugene El Paso                                |
| Link, Felice El Paso                                   | Newman, Frances M El Paso                                 |
| Lizarraga, Romeo El Paso                               | Niland, Mrs. Ada El Paso                                  |
| Loomis, Mrs. Eliza El Paso                             | Nold, Mrs. Lucille El Paso                                |
| Long, Betty Barbara El Paso                            | Nordwald, Ruth El Paso                                    |
| Lord, Warren El Paso                                   | Norwood, Margaret El Paso                                 |
| Lowry, Pat El Paso                                     | O'Neal, Kermit El Paso                                    |
| Lynch, Kevin El Paso                                   | O'Neill, Susie El Paso                                    |
| Lyon, Robert El Paso                                   | Osborn, Mrs. Cordelia Ysleta                              |
| McAdoo, Fay El Paso                                    | Pajari, Raymond, Brooklyn, N. Y.                          |
| McAllister, Warren Tuxedo                              | Paredes, Felipe El Paso                                   |
| McCallick, Hugh El Paso                                | Passmore, Agnes El Paso                                   |
| McCamant, Sue El Paso                                  | Paul, Bob El Paso   |
| McCollum, Marguerite . El Paso                         | Pearson, Mrs. Virginia . El Paso                          |
| McConachie, Paul El Paso                               | Pell, George El Paso                                      |
| McConnell, Gladys E El Paso                            | Pennington, Barry . Georgetown                            |
| McCormack, Ellen T El Paso                             | Perez, Porfirio El Paso                                   |
| McCutchan, Roy El Paso                                 | Perez, Soledad El Paso                                    |
| McDaniel, Lula El Paso                                 | Peterson, Dorothea El Paso                                |
| McGurn, Arthur El Paso                                 | Pfingsten, Mrs. Thelma . El Paso                          |
| McKinney, Mrs. Elizabeth, El Paso                      | Phillips, Lillian El Paso                                 |
| McKinney, Mrs. Wilmoth, El Paso                        | Phillips, Sallie El Paso                                  |
| McMillan, Jackie El Paso                               | Pickle, Judith Big Spring                                 |
| McNail, Elizabeth El Paso                              | Pillow, Mrs. Lucille El Paso                              |
| McNeill, Mary Louise El Paso                           | Porras, Mario El Paso                                     |
| McTier, Frank El Paso                                  | Porter, David Coleman                                     |
| MacFarlane, Sheila El Paso                             | Poske, Alma El Paso                                       |
| Machado, Manuel El Paso                                | Poske, Jane El Paso                                       |
| Maddox, Maude El Paso                                  | Preston, Eleanor El Paso                                  |
| Maros, Mike Fabens                                     | Price, Joseph V El Paso                                   |
| Martin, Mrs. Era El Paso                               | Price, Owen Chicago, Ill.                                 |
| Martin, James R El Paso                                | Putnam, Mrs. Kathryn El Paso                              |
| Martin, Margaret El Paso                               | Quevedo, Alberto El Paso                                  |
| Martin, Mary Alyce El Paso                             | Quick, Beverly El Paso                                    |
| Martin, Mary Richards . El Paso                        | Quick, Miriam El Paso                                     |
| Mason, Helen El Paso                                   | Ragsdale, Gladys El Paso                                  |
| Masten, Mrs. Lois El Paso                              | Rainey, Helen El Paso                                     |
| Maya, Manuel El Paso                                   | Rancich, George Fabens                                    |
| Mayfield, Geraldine El Paso                            | Randel, Maggie El Paso                                    |
| Mayfield, William El Paso                              |   |
| Mendoza, J. R., Chihuahua, Mexico                      | Raney, Morris Temple<br>Reed, Joyce Leslie El Paso        |
| Metcalfe, Juanita El Paso                              | Redd, Raymond El Paso                                     |
|  |   |
| Miller, Katherine El Paso<br>Miller, Leone El Paso     | Reid, Mary Lillian El Paso<br>Resley, Mrs. Louise El Paso |
| Miller, William E El Paso                              | Reynolds, Melville El Paso                                |
|  |   |
| Miskimins, Harry El Paso<br>Miskimins, Ruth El Paso    | Rice, Robert El Paso<br>Richardson, Charles El Paso       |
|  |   |
| Mithoff, Richard El Paso                               | Rigdon, Mrs. Dorothy El Paso                              |
| Monroe, Donald El Paso                                 | Rindom, Virgil El Paso                                    |
| Montgomery, James W El Paso<br>Mooney, Patricia Ysleta | Rinehart, Tiffany El Paso-<br>Ritter, Robert El Paso-     |
|  | Ritter William El Paso                                    |
| Moore, Bert C Doniphan, Mo.                            | Ritter, William El Paso                                   |
| Moore, Harry El Paso                                   | Roberts, Mildred  |
| Moore, Richard El Paso                                 | Zoberta Walton El Paso                                    |
| Morales, Antonio El Paso                               | Roberts, Walton El Paso                                   |
| More, Mrs. Hazel El Paso                               | Robinson, Mrs. Patricia . El Paso                         |
| Moseley, Jane Estelle El Paso                          | Robinson, Richard El Paso<br>Roden, Mildred El Paso       |
| Mulcahy, Catherine El Paso<br>Murphey, Robert El Paso  | Rodgers, Pollard El Paso                                  |
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| Rodriguez, Mildred El Paso    | Thomas, Louise B El Paso          |
|-------------------------------|-----------------------------------|
| Roman, Jose El Paso           | Thomas, Ted El Paso               |
| Romo, Estela El Paso          | Thompson, Mrs. Helen El Paso      |
| Rese, Mrs. Grace El Paso      | Thorne, John El Paso              |
| Rosenberg, Corrine El Paso    | Threadgill, Mrs. Edythe . El Paso |
| Roslyn, Margaret El Paso      | Tiller, Mrs. Lela El Paso         |
| Rouse, Mrs. Marie El Paso     | Tinnin Lee R El Paso              |
| Rowden, Mrs. Dorothy Fabens   | Tinnin, Mrs. Wanga El Paso        |
| Rush, Mrs. Lucy El Paso       | Tompkins, Mrs. Ruby El Paso       |
| Salcedo, Gilberto El Paso     | Tracht, Jocelyn El Paso           |
| Sammer, Mrs. Mary El Paso     | Turner, Mrs. Gladiolus El Paso    |
| Schneider, Louis              | Twining, John El Paso             |
| Washington, D. C.             | Unsell, Virginia El Paso          |
| Schuck, Doris El Paso         | Valdez, Mrs. Nell El Paso         |
| Schuck, Louise El Paso        | Vance, Mrs. Mary L El Paso        |
| Schwartz, Albert El Paso      | Varner Mary El Paso               |
| Scotten, Wilma El Paso        | Vazquez, Amalia El Paso           |
| Seawell, Mrs. Mildred El Paso | Vermillion John El Paso           |
| Shannon, Brady                | Vinson, David El Paso             |
| , Elephant Butte, N. M.       | Waide, Mrs. Roxye El Paso         |
| Shannon, Mrs. Jennie El Paso  | Walker, Lytle El Paso             |
| Sherrell, Marjorie El Paso    | Watson, Mrs. Mary El Paso         |
| Sikes, Dorothy Center Point   | Webel, Herman El Paso             |
| Silva, Hector San Antonio     | Wehner, Bill El Paso              |
| Silva, Rey San Antonio        | Wells, Lots El Paso               |
| Simpson, Helen Ross Lamesa    | Wells, Louise El Paso             |
| Simpson, Nell Frances Lamesa  | Whitaker, Mary Elizabeth, El Paso |
| Smith, Pauline El Paso        | White, Betsy El Paso              |
| Smith, Sara El Paso           | Whitlock, Robert El Paso          |
| Soltner, Lucille El Paso      | Whittington, Jess El Paso         |
| Soveck, Mae El Paso           | Wiggs, Mrs. Ethel El Paso         |
| Spar, Morton Miami, Florida   | Wiley, Howard El Paso             |
| Sparks, Betty Ann El Paso     | Williams, Athalie Nell El Paso    |
| Spencer, Trixy Ysleta         | Williams, Charlie, Tonkawa, Okla. |
| Spruill, Mrs. Hattie El Paso  | Williams, George Marfa            |
| Stark, Betty El Paso          | Williams, J. F El Paso            |
| Stevens. Margaret El Paso     | Willie, Winifred El Paso          |
| Stiles, Ray El Paso           | Willingham, Drew El Paso          |
| Stoker, Mrs. Eryline El Paso  | Willis, Mrs. P. M El Paso         |
| Stone, Mrs. Thelma El Paso    | Wilmoth, Wilma Anne El Paso       |
| Straight, Hazel El Paso       | Wilson, Gordon El Paso            |
| Strandberg, Florence El Paso  | Wilson, Jane El Paso              |
| Stringer, William El Paso     | Wilson, Mary El Paso              |
| Stroede, Mrs. Bess El Paso    | Wilson, Ned El Paso               |
| Stull, Charles Lima, Ohio     | Wiser, Ortella El Paso            |
| Sullivan, Patrick G El Paso   | Womack, Laetitia El Paso          |
| Szrulyovics, Ernest El Paso   | Womack, Lenora El Paso            |
| Talley, Ruth El Paso          | Worthington, Mrs. E El Paso       |
| Tappan, David El Paso         | Wright, Margaret Terrell          |
| Taylor, C. Allen Gainesville  | Wright, Mary E., Primrose, Neb.   |
| Teague, Mrs. Mildred El Paso  | Young, Mrs. Elmore Canutillo      |
| Terrazas, Nicholas El Paso    | Zlabovsky, Julia El Paso          |
| Thomas, Mrs. Inez El Paso     | Zumwalt, Mrs. Eva El Paso         |
|                               |                                   |

### STATISTICAL SUMMARIES

#### STUDENTS

| Long S                        | Session, 1937-38 |       | Long | Session, | n, 1938-39 |  |
|-------------------------------|------------------|-------|------|----------|------------|--|
| Men                           | Women            | Total | Men  | Women    | Total      |  |
| ENGINEERING:                  |                  |       |      |          |            |  |
| Postgraduates 1               | 0                | 1     | 2    | 0        | 2          |  |
| Seniors                       | . 0              | 13    | 31   | 0        | 31         |  |
| Juniors 23                    | 0                | 23    | 29   | 0        | 29         |  |
| Sophemores 47                 | 0                | 47    | 77   | 0        | 77         |  |
| Freshmen                      | 0                | 166   | 140  | 0        | 140        |  |
| Non-credits 0                 | 0                | 0     | 0    | 0        | 0          |  |
| Total 250                     | 0                | 250   | 279  | 0        | 279        |  |
| ACADEMIC:                     |                  |       |      |          |            |  |
| Postgraduates 10              | 28               | 38    | 6    | 15       | 21         |  |
| Seniors 20                    | 45               | 65    | 34   | 91       | 125        |  |
| Juniors 36                    | 66               | 102   | Б8   | 66       | 124        |  |
| Sophomores 70                 | 64               | 134   | 78   | 97       | 175        |  |
| Freshmen144                   | 152              | 296   | 163  | 183      | 346        |  |
| Non-credits 51                | 16               | 67    | 27   | 11       | 38         |  |
| Total331                      | 371              | 702   | 366  | 463      | 829        |  |
| Total Individual Students 581 | 371              | 952   | 645  | 463      | 1,108      |  |

#### SUMMER SESSION

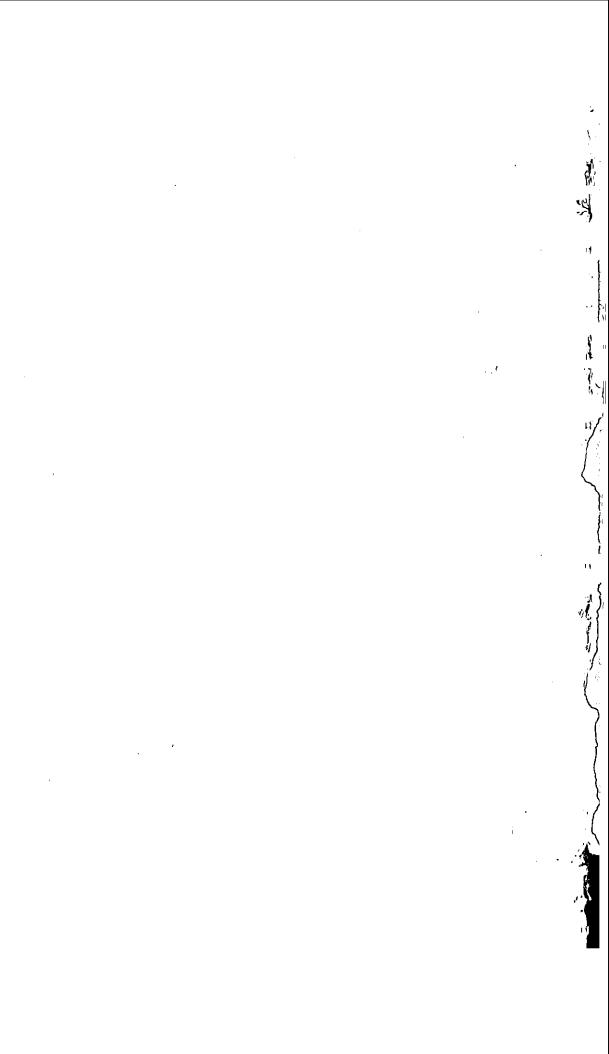
|   | 1938  |       | 1939 |       |       |
|---|-------|-------|------|-------|-------|
| Men   | Women | Total | Men  | Women | Total |
| Students registered in the first term171              | 207   | 378   | 154  | 247   | 401   |
| the second term,134                                   | 165   | 299   | 140  | 154   | 294   |
| Total305  | 372   | 677   | 294  | 401   | 695   |
| Total Individual Students in<br>the Summer Session199 | 254   | 453   | 195  | 282   | 477   |

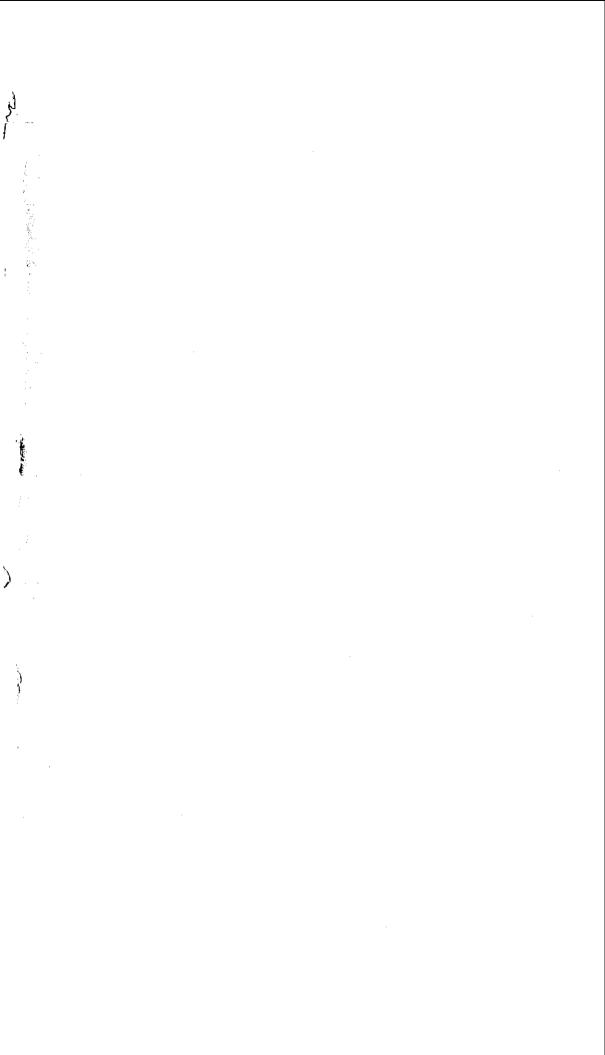
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| Library                                   | $\frac{16}{12}$ | Spanish, Courses in                                     | 95       |
| Loans Funds                               | 20              | Special Observation                                     | 41       |
| Location of the College                   | 11              | Absences When on 36,                                    | 42       |
| Mathematics, Courses in                   | 89              | Specimens, Rocks, Mineral,                              |          |
| -Majors in                                |                 | Fossils, Ores, Geological                               | 16       |
| Economics                                 | 53              | Standard of Work Required                               | 40       |
| Business Administration                   | 52              | Statistical Summaries                                   | 117      |
| Education                                 | 54              | Student   |          |
| English                                   | 55              | Activities Regulations for                              |          |
| History                                   | 56              | Non-Athletic Extra-Curric-                              |          |
| Language                                  | 57              | ulum  | 23       |
| Music                                     | 58              | Association Fee   | 19       |
| Science                                   | 60              | Guidance  | 39<br>22 |
| Medicine, Preparation for Metallurgy      | 61              | List for 1938-1939                                      | 104      |
| Courses in                                | 93              | Suspension Disciplinary                                 | 27       |
| Option                                    | 46              | Tardiness   | 36       |
| Mining                                    | 70              | Teachers Certificates                                   | 62       |
| Courses in                                | 92              | Tests   | -        |
| Geology Option                            | 46              | Determinations and                                      | 16       |
| Option                                    | 45              | Metallurgical   | 17       |
| Minimum of Work Required .                | 40              | Tuition Fees  |          |
| Museum                                    | 13              | Resident Students                                       | 17       |
| Music, Courses in                         | 98              | Non-Resident Students                                   | 17       |
| Options, Requirements for En-             |                 | Uncompleted Work  | 38       |
| gineers                                   |                 | Vaccination   |          |
| Metallurgy                                | 46              | Certificate Required                                    | 28       |
| Mining                                    | 45              | Examination for Vistors (Non-Credit)                    | 22       |
| Mining Geology Organizations              | 46              | Fee   | 19       |
| List of Student General                   | 23              | Permission for  | 34       |
| List of Student Social                    | 23              | Welfare, Physical                                       | 22       |
| Philosophy                                |                 | Women's Auxiliary Loan Fund                             | 21       |
| Courses in                                | 100             | Work  |          |
| Physical Eduaction, Courses               |                 | Amount of, Permitted                                    | 35       |
| fn  | 76              | Minimum to Be Passed                                    | 40       |
| Physical Examination for                  |                 | Standards Required                                      | 40       |
| Freshmen                                  | 22              | Uncompleted   | 38       |
| Physical Training Required of             |                 | Zoology, Courses in                                     | 64       |
| Freshmen                                  | 2 <b>2</b>      |   |          |

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