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BULLETIN

of the

COLLEGE OF MINES AND METALLURGY

(A Branch of The University of Texas)

EL PASO, TEXAS

Volume XXIII

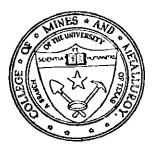
April 1, 1939

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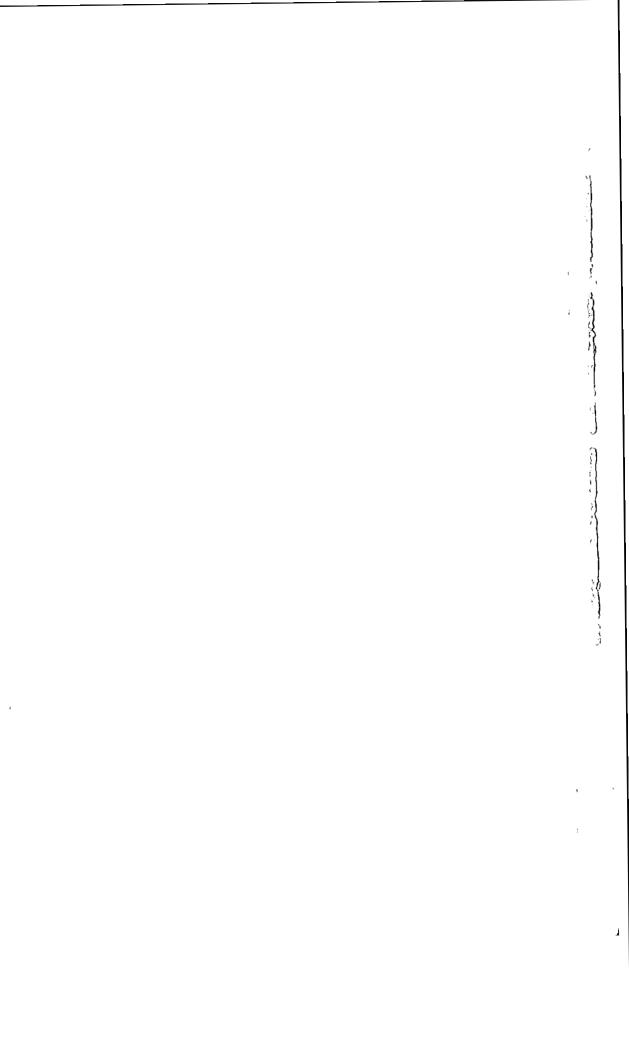
With Announcements for 1939-1940





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College of Mines and Metallurgy

(A Branch of The University of Texas)

MEMBER

οf

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				
Terms Expire January, 1943				
E. J. BLACKERT Victoria LESLIE WAGGENER Dallas H. H. WEINERT Seguin				
Terms Expire January, 1945				
K. H. AYNESWORTH				

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.

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

of

THE COLLEGE OF MINES AND METALLURGY

1939

AUGUST 14, MONDAY. Beginning of Summer Surveying Class.

SEPTEMBER 7, THURSDAY. Examinations for admission.

SEPTEMBER 11, MONDAY. Condition, advanced standing, and postponed examinations. Petitions must be in the office of the Registrar not later than September 5.

SEPTEMBER 12, TUESDAY. Freshman convocation at 9:00 a.m.

SEPTEMBER 12, TUESDAY. Faculty registration conference at 2:00 p.m.

SEPTEMBER 13-14, WEDNESDAY-THURSDAY, Registration.

SEPTEMBER 15, FRIDAY. Classes begin.

SEPTEMBER 21, THURSDAY. Deferred examinations.

SEPTEMBER 23, SATURDAY. Last day students may add or substitute courses.

SEPTEMBER 23, SATURDAY. Last day of registration for the first semester.

NOVEMBER 11, SATURDAY. Armistice Day, holiday.

NOVEMBER 23-25, THURSDAY-SATURDAY. Thanksgiving recess.

DECEMBER 16, SATURDAY. Christmas recess begins at the close of the last class which meets on Saturday.

1940

JANUARY 2, TUESDAY. Classes are resumed.

JANUARY 19-26, FRIDAY-FRIDAY. Examinations for the first semester.

JANUARY 22, MONDAY. Examinations for admission.

January 23, Tuesday. Freshman convocation at 9:00 a.m.

JANUARY 24-26, WEDNESDAY-FRIDAY. Registration of new students.

JANUARY 27, SATURDAY. Advanced standing examinations.

JANUARY 30, TUESDAY. Registration of readmission students.

JANUARY 31, WEDNESDAY. Classes begin.

FEBRUARY 3, SATURDAY. Condition and postponed examinations. (Not for Engineering students.)

FEBRUARY 7, WEDNESDAY. Last day students may add or substitute courses.

Calendar

FEBRUARY 7, WEDNESDAY. Last day for registration in the second semester.

APRIL 5-8, FRIDAY-MONDAY, inclusive. Easter Holidays.

MAY 4, SATURDAY. Major examinations.

May 24-31, FRIDAY-FRIDAY. Examinations for the second semester.

MAY 24-31, FRIDAY-FRIDAY. Senior week.

JUNE 1, SATURDAY. Alumni and class day.

JUNE 2, SUNDAY. Baccalaureate Services.

JUNE 3, MONDAY. Commencement.



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COLLEGE OF MINES AND METALLURGY

ADMINISTRATIVE OFFICERS

DOSSIE MARION WIGGINS, Ph.D., President. B.A., Simmons, 1919; M.A., Yale, 1925; Ph.D., 1930.

CHARLES ALEXANDER PUCKETT, M.A., Dean of Arts and Education.

JOHN WILLIAM KIDD, E.E., Dean of Mining and Metallurgy; Superintendent of Buildings and Grounds.

*Forrest Jack Acee, M.Ed., Registrar and Director of Student Life.

NORMA EGG., M.A., Dean of Women.

BAXTER POLK, B.A., B.S. (Library Science), Librarian.
B.A., Hardin-Simmons, 1935; B.S. (Library Science), Oklahoma, 1936.

BURT FRANKLIN JENNESS, M.D., Health Officer.

MARSHALL LEE PENNINGTON, B.B.A., Business Manager and Instructor.
B.B.A., Texas, 1935.

MARY ELLA POOL, B.S., Director of Dormitories. B.S., Texas, 1930.

VAYNE PORTER, Acting Registrar.

W. S. STRAIN, M.S., Curator of Museum.

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; Ph.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, Professor 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., Harvard, 1916.

HOWARD EDMUND QUINN, Professor of Geology. E.M. (Geology), Minnesota, 1918; M.S., 1926; Ph.D., Harvard, 1932.

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, Professor 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.

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^{*}On leave, September 15 to June 1, 1938-1939 aesaion.

Associate Professors

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.

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., 1923.

**EDWARD DEWITT COLLINS, Jr., Assistant Professor of Mining and Metallurgy.

B.S. (Mining), Minnesota, 1929; B.S. (Metallurgy), 1936.

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. 1928; Ph.D., 1937.
*LUCY CLAIRE HOARD, Assistant Professor of Education.
B.A., State College, San Diego, California, 1929; M.A., Columbia, 1934.

BURT FRANKLIN JENNESS, Assistant Professor of Biological Sciences. M.D., Dartmouth, 1899; Lt. Comdr. M.C., U. S. Navy, Rtd.

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., 1984.

MRS. MARY KELLY QUINN, Assistant Professor of Sociology. B.A., Wellesley, 1922; M.A., Boston University, 1930.

MAC FRANCES SMITH, Assistant Professor of Economics and Business Administration.

B.B.A., Texas, 1931; M.B.A., 1934.

REX WALLACE STRICKLAND, Assistant Professor of History.

B.A., Austin College, 1927; M.A., Southern Methodist University, 1929; Ph.D.,
Texas, 1937.

†EUGENE MCRAE THOMAS, Assistant Professor of Mining and Metallurgy.

B.S. (Mining Engineering), Texas College of Mines, 1926.

HUGH LONSDALE TURRITTIN, Assistant Professor of Engineering and Mathematics.

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B.S., Minnesota, 1927; M.S., Wisconsin, 1932; Ph.D., 1933.

^{**}Appointed for session 1938-1939 only.

^{*}On leave, first semester of 1938-1939 session.

[†]On leave, 1938-89 session.

Instructors

**FORREST JACK AGEE, Instructor in Education. B.A., Howard Payne, 1928; M.Ed., Texas, 1937.

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.

MRS. ISABELLE KELLY FINEAU, Instructor in Modern Languages.
B.A., Texas, 1905; M.A., 1981.

JOSEPH HOPKINS JAMES, JR., Instructor in English. B.A., Alabama, 1929; M.A., 1931.

GLEN R. JOHNSON, Instructor, Director of Band and Glee Clubs. B.A., Baylor University, 1936.

FRANK JUNELL, Instructor in Journalism. B.A., Hardin-Simmons, 1934; M.A., Missouri, 1937.

MRS. JULIA IDA KANE, Instructor in Physical Education. B.A., North Dakota, 1919; M.A., Arizona, 1930.

*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.

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., 1936.

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

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.

Visiting Instructors

ELMER BAGBY ATWOOD, Visiting Instructor in English from The University of Texas.

B.A., Hardin-Simmons University, 1926; M.A., University of Virginia, 1930; Ph.D., 1932.

Assistants

LAWRENCE DUTHY, Assistant in the Department of Mathematics and Physics.

MERLE HUNGERFORD, Laboratory Assistant in Department of Chemistry.

JOHN LANCE, Laboratory Assistant in Department of Geology. B A., Texas College of Mines, 1938.

KENDRICK SMITH, Laboratory Assistant in Department of Biological Sciences.

B.A., Texas, 1937.

EUGENE SULLIVAN, Assistant Band Director.

B.A., Texas College of Mines, 1938.

^{**}On leave, September 15 to June 1, 1938-1939 session.

^{***}Appointed for 1938-1939 session only.

On leave, 1938-1939 session.

Administrative Assistants

MARJORIE ERWIN, Assistant Librarian.
B.A., Texas College of Mines, 1934; B.S. (Library Science), Pratt Institute, 1935.
FRANCES LUELLA JOB, Information Clerk and Switchboard Operator.
B.A., Texas College of Mines, 1935.

ISABEL ABDOU JOSEPH, Clerk in Business Office. B.A., Texas College of Mines, 1933.

EDWARDA KELTNER, Clerk (half-time) in Office of the Registrar.

MARGARET NEELY, Stenographer.

VAYNE PORTER, Assistant Registrar, (Acting Registrar, 1938-1939).

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

MRS. FRANCES SMITH STEVENS, Secretary to the President.

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% 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.

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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 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 There are also large power plants and sub-stations, mills, etc. 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 Building, 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 Women'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.

LIBRARY

The book collection of 20,000 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. The geology, mining, language, and economics 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 253 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 on 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 62,781 volumes and 36,000 pamphlets. 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.

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 spacious 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 include some of the finest archeological specimens to be found in Texas, especially those of Chihuahua, 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

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 pursuing 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.

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 Engineer 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 agencies and industries. Future efforts and developments will probably be largely concerned with salts and minerals of potash, soda, fluorine, 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 exploitation 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 suitable 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 problems 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 work-

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ing collections. Acknowledgment 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 treatment 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 tuition at the following rate for each semester:

12 or more semester hours\$25.00)
11 semester hours 22.99	2
10 semester hours 20.83	3
9 semester hours 18.78	5
8 semester hours 16.67	7
7 semester hours 14.58	3
6 semester hours 12.50)
5 semester hours	_
4 semester hours 8.33	3
3 semester hours 7.50)

Refunding tuition and fees is permitted only when classes have not been attended by the student.

Non-Resident Students: Each non-resident student who registers for twelve 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.

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

Laboratory Fees.—For each course of three semester 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 fee of \$4.00 is charged.

Deposits.—All students not taking any laboratory course shall be required to make a deposit of six dollars. For students taking one or more laboratory courses the deposit required shall be eight dollars. These deposits less charges for breakage, loss, or damage to library books will be returned to the student at the end of the session or upon his withdrawal from the College. Students will be required to renew their deposits when charges have been made equal to or in excess of the original deposit.

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 all 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, pub-

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lications, dramatics, current events, debate, advanced and special application in science and engineering, etc. At least 50% 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 refundable 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 requested 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 proper arrangements are made, delinquency in payment will incur a fine of 25c for the first day and 10c for each 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

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student, but the College assumes no responsibility except 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

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 Mining and Metallurgy.

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 sailors.

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 descent. 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.

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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

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	Hea	lth Officer
MACK	SAXON	Associate	Professor
JULIA	I. KANE		Instructor
HR	Риплев		Instructor

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

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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 40, 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

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)

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 Govern-

ment)

Women's Athletic Association

Publications

Nugget (literary)

The Prospector (Weekly)

The Flowsheet (Annual)

Social Organizations

Alpha Chi (Honorary Society)
Alpha Phi Omega Fraternity
Alpha Psi Omega (Dramatics)
Delta Delta Delta Sorority
Delta Epsilon Beta Sorority
Kappa Sigma Kappa Fraternity
Menorah Society
Newman Club (Religious-Social)
Phi Beta Mex Fraternity
Phi Sigma Psi Fraternity
Pi Kappa Nu Fraternity
Sigma Delta Pi Sorority
S. P. Q. (Spanish Society)
Zeta Tau Alpha Sorority

General Regulations.—These extra-curricular activities of the nonathletic 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 as president, 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.)

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.
- b. Those who are taking twelve or more credit hours of regular college 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 required 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. Copies may be obtained from the office of the Registrar.

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 examinations 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 responsibilities 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.
- 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)					
Section	on A				
(The units column shows the nuin each subject.) Subject Units English Group 3-4 Foreign Language Group 2-3 French 2-3 German 2-3 Greek 2-3	Subject Units Natural Science Group Biology				
Latin 2-3-4 Spanish 2-3 Mathematics Group Algebra 1-1½-2 Plane Geometry 1 Solid Geometry ½ Trigonometry ½ General 1	Physiology and hygiene &-1 Zoology 1 Social Science Group Early European history 1 Modern European history 1 World history 1 English history ½-1 American history ½-1 Civics ½-1 Economics ½				
Section	on B				
Subject Units Agriculture \$\frac{1}{2} - 2\$ Arithmetic \$\frac{1}{2}\$ Bookkeeping 1 Commercial geography \$\frac{1}{2} - 1\$ Commercial law \$\frac{1}{2} - 1\$ Home economics \$\frac{1}{2} - 3\$ Manual Training \$\frac{1}{2} - 1\$	Subject Units Public speaking				

training, etc.)......1-1

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 7 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 semester 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: Units Subject 1. English 3 2. Mathematics: Algebra1½) Plane Geometry 1 Solid Geometry...... 3. Two units from each of any two of the three other groups in Section A (Foreign Language Group, Natural Science Group, Social Science Group), total..... 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.....

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 1939-1940 the registration days are as follows:

First semester: September 13-14, Wednesday-Thursday.

Second semester: January 24-26, Wednesday-Friday, registration of new students.

January 30, Tuesday, registration of readmission students.

Late Registration.—Students are urged to register during the first days set aside for registration. Late registration necessarily handicaps the student because of his missing classes. The difficulty in scheduling classes due to closed sections may give the student an undesirable 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.

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 1as 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 session. 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

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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 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 post-poned 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. Following 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 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), C (fair), D (low pass), E (failure, but with privileges of petitioning to continue the course and to take removal-of-condition examination), 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 E of an earlier semester to D because of a grade of 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 the 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.

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 13 and March 25 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 upper 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, sophomores; 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 Education, and Mining and Metallurgy will confer with all students in the College who are doing unsatisfactory work, both at the intrasemester 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.

Failures.—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 postponed 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 stand-

ing 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 better 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 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 ?	Year	
First Semester	Sem. Hrs. Credit	Second Semester	Sem. Hrs. Credit
Chemistry 801a	4	Chemistry 801b	4
Drawing 301		Drawing 302	3
English 1a	3	English 1b	3
Geology 1a	3	Geology 1b	
Mathematics 803a	4	Mathematics 803b	
Physical Training		Physical Training	
	17		17
	Second	Year	
First Semester	Sem. Hrs.	Second Semester	Sem. Hrs.
	Credit		Credit
Chemistry 311	3	Chemistry 413	4
Engineering 312	• • • • • •	Engineering 313	_
English 310		Mining 310	
Geology 316		Geology 217	2
Mathematics 13a		Mathematics 13b	3
Physics 812a		Physics 812b	4
-			_
	19		19
SUMMER WORK: for four weeks		414: Eight hours a	
	Third	Year	
	Mining	Option	
First Semester	Sem. Hrs. Credit	Second Semester	Sem. Hrs. Credit
Chemistry 323	3	Chemistry 324	3
Engineering 832a		Engineering 832b	
Geology 321		Geology 322	
Mathematics 325	3	Physics 221	
Metallurgy 321	3	Metallurgy 423	4
Mining 321		Mining 322	
_			
	19		19
	_	: Eight hours a day	
3			

Metallurgy Option

First Semester	Sem. H		Q	Hrs. edit
Chemistry 323		3	Chemistry 324	3
Chemistry 325		3	Chemistry 326	3
Engineering 832a		4	Engineering 832b	4
Mathematics 325			Physics 221	2
Metallurgy 321		3	Metallurgy 423	4
Mining 321		3	Geology 322	3
		_		_
	19	9		19

Mining Geology Option

Chemistry 323 3 Chemistry 324 3 Engineering 832a 4 Engineering 832b 4 Geology 321 3 Geology 322 3 Mathematics 325 3 Geology 427 or 423 4 Metallurgy 321 3 Physics 221 2 Mining 321 3 Mining 322 3 19 19		•	. .	
Engineering 832a	First Semester		Second Semester S	em. Hrs. Credit
19 19	Engineering 832a Geology 321 Mathematics 325 Metallurgy 321	4 3 3	Engineering 832b Geology 322 Geology 427 or 423 Physics 221	4 3 4 2
SUMMER WORK: Mining 224: Eight hours a day for two weeks	SUMMER WORK:		1: Eight hours a day f	19 or

Fourth Year

Mining Option

First Semester	Sem. Hrs. Credit	Second Semester	Sem. Hrs. Credit
Engineering 350	3	Engineering 354	3
Geology 264	2	Engineering 431	4
Government 10a	3	Government 10b	3
Metallurgy 261	2	Mining 67b	3
Mining 67a	3	Mining 268	2
Mining 260	2	Mining 361	3
Economics 312	3	Mining 074 (Senior T	rip) 0
	_		
	18		18

Metallurgy Option

First Semester	Sem.		Second Semester Sem.	
	$Cr\epsilon$	edit	Cr	edit
Engineering 350		3	Engineering 431	4
Government 10a		3	Government 10b	3
Metallurgy 362		3	Metallurgy 264	2
Metallurgy 463		4	Metallurgy 473	4
Metallurgy 361		3	Economics 312	3
Mining 67a		3	Mining 67b	3
			Metallurgy 074 (Senior	
			Trip)	0
		_		_
		19		19

Mining Geology Option

First Semester	Sem.	Hrs.	Second Semester Sem.	Hrs.
	Cre	dit	Cr	edit
Economics 312		3	Engineering 354	3
Government 10a		3	Government 10b	3
Geology 264		2	Geology 423 or 427	4
Geology 463		4	Geology 365	3
Geology 361		3	Mining 268	2
Mining 67a		3	Mining 67b	3
			Geology 074 (Senior	
			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.

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 advanced 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 resriction 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 C 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

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Faculty through the Registrar for permission to continue his candidacy for a degree. This petition will not be eccepted unless the average grade of such work completed is C 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 C 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 Sciences, §Chemistry, Geology, §Mathematics,

§Physics.

Group B

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

A different minor may be chosen only with the permission of the head of the major department and the approval of the Dean.
§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.

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

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

- 1. Not less than twenty-four semester hours, at least twelve of which must be of 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 two 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 year.

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."

^{*}Botany, biology, chemistry, physics, geology, 200logy.

[†]For students enrolling after September 1, 1937; for students enrolling prior to September 1, 1937, Government 310 is required.

**Economics, government, history, philosophy, psychology, sociology.

[†]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

Minor-See Group B under "Concentrations"

	requirements	
	Ho	urs
1.	Business Administration 311, 314, 432, 420, and fourteen additional 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 languagethe 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
	-	190

[†]See Number 6 under Course Requirements. *Economics, government, history, philosophy, psychology, sociology, or combination.

ECONOMICS MAJOR

Minor-See Group B under "Concentrations"

	and the contract	
	Но	urs
	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
	Science (laboratory)—six semester hours in each of any two of the following sciences: botany, biology, chemistry,	
6	physics, geology, zoology	12
0.	†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
		100

[†]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"

	Kequirements	
	Н	ours
	tion—twenty-four semester hours, including Education or 28 and six additional semester hours of advanced	
	ses	24
	ses, six of which must be advanced	18
	teaching subject-eighteen semester hours of num-	
bere	d courses, six of which must be advanced	18
3. English	h 1 and 12	12
4. †Foreig	gn language—the completion of a course numbered 12	12
of t	e (laboratory)—six semester hours in each of any two the following sciences: botany, biology, chemistry,	
	sics, geology, zoology	12
	matics or numbered courses of †Latin or †German or	
_	eek	6
	nment 10	6
8. Philoso	ophy or psychology	3
9. *Social	Science	6
10. **Elect	tive, advanced courses	3
11. Physica	al Training—no credit	0

120

[†]See Number 6 under Course Requirements.

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

*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"

	Ho	urs
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
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	12
10.	Electives, twelve semester hours of which must be advanced	27
11.	Physical training—no credit	0
	•	120

[†]See Number 6 under Course Requirements.
*Economics, government, history, philosophy, psychology, sociology, or combination.

HISTORY MAJOR

Minor-See Group B under "Concentrations"

	arequirements	
	Ho	ours
1.	History-twenty-four semester hours, twelve 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 (See No. 1)	0
10.	Electives, twelve semester hours of which must be advanced	27
11.	Physical training—no credit	0
	-	
		120

[†]See Number 6 under Course Requirements. *Economics, government, history, philosophy, psychology, sociology, or combination.

MODERN LANGUAGE MAJOR

Minor-See Group B under "Concentrations"

	1	
	Ho	urs
	†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 advanced	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.	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.	Elective, twelve semester hours of which must be advanced	21
11.	Physical training-no credit	0
	-	120

[†]See Number 6 under Course Requirements.

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

†SCIENCE MAJOR

**Minor-See Group A under "Concentrations"

	Ho	ours
	Major science—twenty-four semester hours, twelve of which must be advanced **A second science—eighteen semester hours, six of which	24
	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

 $[\]dagger$ When registering for this major, the student should be careful to secure proper advice concerning the order and choice of courses.

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

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 Law

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 mathematic; 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 semester 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

306f. Biology.—A study of the structure and physical properties of plant and animal cells, nutrition in plants and animals, relation of bacteria to man, a brief survey of the anatomy of the frog, histology of animal tissues and heredity. This course is intended for students taking work in physical education and allied subjects and 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. (Given in Long Session, 1938-1939; to be omitted in 1939-1940.)

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 procedure of fixing, imbedding, sectioning, staining, and mounting cells and tissues of plants and animals for critical analysis. Prerequisite: Bacteriology 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. (To be offered in Long Session, 1939-1940.)

Bacteriology

29. General Bacteriology.—A study of the structure, reproduction, and classification of bacteria, immunity, the preparation of culture media, the principles of sterilization, the microscopic observations and isolation of pathogenic organisms, and the bacterial investigation of water, air, soil, and milk. Prerequisite: Twelve semester hours in botany, or chemistry, or zoology. Two lectures and three laboratory hours, or the equivalent. Laboratory fee, \$4. Credit value: Six semester hours.

Botany

501f. 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. (Formerly Botany 1a.)

502s. 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 Mendelian Law. Prerequisite: Botany 301. Two lectures and three laboratory hours. Laboratory fee, \$2. Credit value: Three semester hours. (Formerly Botany 1b.)

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. (Formerly Zoology 1a.)

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. (Formerly Zoology 1b.)

- 14. Vertebrate Zoology.—Laboratory study of the structure of dog-fish, necturus, turtle, bird, mammal, and perhaps other typical vertebrates. Prerequisite: 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.

CHEMISTRY

PROFESSOR SEAMON; ASSOCIATE PROFESSOR LAKE; INSTRUCTOR BALL

- 1. General Chemistry.—Fundamental principles of chemistry. This course does not satisfy degree requirements in engineering. Two lectures or recitations and three laboratory hours. 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. Two lectures, one recitation, and three laboratory hours. Laboratory fee, \$4. Credit value: Eight semester hours.
- 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.
- 418s. 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, and Chemistry 323 concurrently; but credit will not be given until Chemistry 323 has been completed. 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. Prerequisite: Chemistry 413. One lecture and six laboratory hours. Laboratory fee, \$2. Credit value: Three semester hours. (Formerly Chemistry 423.)

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 heterogeneous 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 one 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.
- 321f. 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. (Given in Long Session, 1938-1939; to be omitted in 1939-1940.)
- 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 offered in 1939-

1940.) 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. (Given in Long Session 1938-1839; to be omitted in 1939-1940.)

3298. 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 lecture 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 offered in 1939-1940.)

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 offered in 1939-1940.)

336s. Agricultural Economics and Farm Management.—Development of financial needs of agriculture. Application of the principles of economics to the problems of agricultural production; agricultural prices; standards of living on the farm; cooperative farming projects; management problems. Prerequisite: Economics 313. Credit value: Three semester hours. (Given in Long Session, 1938-1939; to be omitted in 1939-1940.) May not be counted for credit in addition to Business Administration 336.

3418. 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 offered in 1939-1940.) May not be counted for credit in addition to Business Administration 341.

- 3478. Economics of Consumption.—Amplification of the position of the consumer in present-day society. Factors influencing consumer choice; costs and standards of living. Household budgeting; installment buying; consumer protective organizations. Prerequisite: Economics 313. Credit value: Three semester hours. (Given second semester, summer of 1938.)
- 349f. Labor Problems.—Problems of the State and Federal Government 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 offered in 1939-1940.)
- 357f. Investments.—Investment principles; investment banking; security flotation; principles underlying demand and supply of capital; financial analysis; principles of selection of industrials, rails, utilities, governments, and special types of securities; investment mathematics; technique of stock-market trading. Prerequisite: Economics 313. Credit value: Three semester hours. (Given in Long Session, 1938-1939; to be omitted in 1939-1940.) May not be counted for credit in addition to Business Administration 357.
- 558s. 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; intergovernmental debt payments; reparations; American technique in dealing with foreign countries. Prerequisite: Economics 313 and three semester hours of advanced economics. Credit value: Three semester hours. (Given in Long Session, 1938-1939; to be omitted in 1939-1940.)

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.
- 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 other-

wise. 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 proprietorship 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.
- 420f. 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 type-writing. 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 offered in 1939-1940.)
- 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 offered in 1939-1940.)
- 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; state-

ment of application of funds. Prerequisite: Business Administration 314. Credit value: Three semester hours. (Given in alternate years; to be offered in 1939-1940.)

327Ks. Intermediate Accounting, Second Course.—Theory involved in partnership accounting; venture accounts; accounting for receiverships; 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 offered in 1939-1940.)

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. (Given in Long Session, 1938-1939; to be omitted in 1939-1940.)

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. (Given in Long Session, 1938-1939; to be omitted in 1939-1940.)

432s. 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 Administration 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.)

334f. Office Organization and Practice.—The location, equipment, organization, and general practice in office routine. Practice in the use of the mimeograph machine, dictaphone, 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 intending to go into office work. Prerequisite: Business Administration 10 and 314. Credit value: Three semester hours. (Given in Long Session, 1938-1939; to be omitted in 1939-1940.)

335s. Credits and Collections.—Types of credit, credit terms, credit department organizations; analysis and appraisal of credit risks; collection tools; legal aids to creditors; handling insolvent ac-

counts; credit insurance and guaranties; functions of national credit organizations. Prerequisite: Business Administration 314 or Economics 313. Credit value: Three semester hours. (Offered first semester, summer of 1938.)

3368. Agricultural Economics and Farm Management.—Development of financial needs of agriculture. Application of the principles of economics to the problems of agricultural production; agricultural prices; standards of living on the farm; cooperative farming projects; management problems. Prerequisite: Business Administration 314. Credit value: Three semester hours. (Given in Long Session, 1938-1939; to be omitted in 1939-1940.) May not be counted for credit in addition to Economics 336.

- 339f. Business Salesmanship.—A study of the economic problems connected with personal selling; an analysis of the products and the market; the planning and execution of an interview; building goodwill; consideration of the relationship between the salesman and his employer. Individual demonstrations of selling constitute an important part of the course. Prerequisite: Business Administration 314. Credit value: Three semester hours. (Given in Long Session, 1938-1939; to be omitted in 1939-1940.)
- 3418. 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 operations; specialized finance houses. Prerequisite: Business Administration 314. Credit value: Three semester hours. (Given in alternate years; to be offered in 1939-1940.) May not be counted for credit in addition to Economics 341.
- 454f. 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 offered in 1939-1940.) 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. May not be counted for credit in addition

to Economics 357. (Given in Long Session, 1938-1939; to be omitted in 1939-1940.)

EDUCATION AND PHYSICAL EDUCATION

Education

PROFESSOR PUCKETT; ASSISTANT PROFESSOR HOARD; INSTRUCTORS AGEE, REYNOLDS, JOHNSON

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

- 301fs. 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 guiding pupils at work. Prerequisite: Twelve semester hours in education. Credit value: Three semester hours. (Given in Long Session, 1938-1939; to be offered in 1939-1940.)

- \$36Ts. Trends in Curriculum Construction.—Emphasis will be placed upon the function of the school in present society; recent trends and current problems in curriculum development. Prerequisite: Twelve semester hours in education. Credit value: Three semester hours. (Given in summer, 1938.)
- 341f. Educational Guidance.—Consideration will be given to the general meaning, importance, and function of guidance together with a survey of techniques and the evaluation of outcomes. Prerequisite: Twelve semester hours of education. Credit value: Three semester hours. (Given in summer, 1939.)
- 545s. The Psychology of Social Institutions.—Deals with the relationships between the individual and social institutions; the psychology of number, punctuality, and precision; the psychology of language; the psychology of the fine arts; the psychology of government and governmental institutions; the psychology of systems of exchange. Prerequisite: Twelve semester hours in education, or the consent of the instructor. Credit value: Three semester hours. (To be offered in 1939-1940.)
- 355s. Mental and Educational Measurement.—Introduction to measurement in education. Typical methods of measuring intelligence, character, and achievement. Elementary statistical terms and processes. Preparation for use of mental and educational tests. Prerequisite: Education 314 and 317. Credit value: Three semester hours. (Given in summer, 1938.)
- 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. (Given in 1938-1939; to be offered in 1939-1940.)

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.
- 818s. 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 alternate years; to be offered in 1939-1940.)
- 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 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. Prerequisite: Education 314 and 318, or their equivalent. Credit value: Six semester hours.
- 548s. 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. (Given in 1938-1939; to be omitted in 1939-1940.)
- 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.)
- 358s. 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. (Given in Long Session, 1938-1939.)

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.

- 3178. 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. (To be offered in 1939-1940.)
- 328f. Teachers' Course in Modern Languages.—Methods of teaching modern languages in secondary schools. Prerequisite: Course 12 in a language; and Education 316 and 317, or their equivalent. Credit value: Three semester hours. (To be offered in 1939-1940.)
- 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. (Given in Long Session, 1938-1939; to be omitted in 1939-1940.)
- 27. Student-Teaching in the 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.
- 329f. 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. (Given in 1938-1939; to be omitted in 1939-1940.)

Public School Art

312Tf. Design.—A course for students and teachers interested in the fundamental principles of design. Instruction will be given in art elements such as line, dark and light, and color as applied to the poster, illustrations, textiles, and crafts. Prerequisite: Sophomore standing. Credit value: Three semester hours. (Given in summer, 1938.)

sists. Teachers' Course in Art.—This course deals with the materials and methods of presenting art in the public schools. The principles of drawing, design, and color will be studied as they are used in the activities demanded by current trends in art education. Prerequisite: Sophomore standing. Credit value: Three semester hours. (Given in summer, 1938.))

Physical Education

ASSOCIATE PROFESSOR SAXON; INSTRUCTORS KANE, PHILLIPS

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- siles. 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 schools. 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; to be omitted in 1939-1940.)
- 318f. 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. (To be 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 1939-1939; to be offered in 1939-1940.)
- 316f. Technique of Major Sports.—Theory and practice in methods and materials especially for the following: football, basket ball. Open to men. Laboratory fee, \$2. Prerequisite: Sophomore standing. Credit value: Three semester hours. (Given in 1938-1939; to be offered in 1939-1940.)

ENGINEERING AND DRAWING

PROFESSOR KIDD; ASSISTANT PROFESSOR DECKER; INSTRUCTOR LEECH

Engineering

- 310s. Elements of Electrical Engineering.—Direct current electric and magnetic circuits. Prerequisite: Physics 12a and registration in Mathematics 13b. Two recitations and one laboratory period a week. Laboratory fee, \$2. Credit value: Three semester hours.
- 312f. Mechanism.—A study of the laws which govern the motion of machine parts and the forces transmitted by the parts. Graphic analyses 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.
- 318s. 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 preceding the opening of the session. Laboratory fee, \$4. 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.
- 4318. 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. Applied 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 cost. 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 engines 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 hydrostatics; 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 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 drafting per week. Credit value: Three semester hours. Laboratory fee, \$2.

ENGLISH, JOURNALISM, AND PUBLIC SPEAKING

PROFESSOR SONNICHSEN; ASSOCIATE PROFESSOR ZIMMERMAN; ASSISTANT PROFESSORS MOSES, EGG; INSTRUCTORS BALL, JAMES, JUNELL, PONSFORD; VISITING INSTRUCTOR ATWOOD

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, 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 English and American 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.
- 310fs. 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. Outline 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 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.
- \$20f. 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. (To be offered in 1939-1940.)
- 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 320. Credit value: Three semester hours. (To be offered in 1939-1940.)

- 322f. Victorian Poetry.—Consideration of the poetic works of Browning primarily, and study of such noteworthy minor poets as Arnold, Clough, James Thomson, and others. Prerequisite: English 12. Credit value: Three semester hours. (To be offered in 1939-1940.)
- 328s. 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. (To be offered in 1939-1940.)
- 327f. 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. (To be offered in 1939-1940.)
- 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. (To be offered in 1939-1940.)
- 329f. English Romantic Poetry, the Earlier Phase.—Rapid survey of the revival of Romanticism in the Eighteenth Century, followed by a more detailed consideration of the works of Burns, Scott, Coleridge, and Wordsworth. Prerequisite: English 12. Credit value: Three semester hours. (Given in the Summer Session, 1938.)
- 330s. English Romantic Poetry, the Later Phase.—Consideration of the work of Byron, Shelley, Keats, and some of their contemporaries. Prerequisite: English 12. Credit value: Three semester hours. (Given in the Summer Session, 1938.)
- s31f. 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. (Given in 1938-1939.)
- 332s. The Development of the American Drama.—A study of the drama of the Colonial and Revolutionary Periods. Study of the development of the drama to modern times including the study of 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. (Given in 1938-1939.)
- 334f. Contemporary Poetry.—Prerequisite: English 12. Credit value: Three semester hours. (Given in the Summer Session, 1938.)
- 335s. Contemporary Prose.—Prerequisite: English 12. Credit value: Three semester hours. (Given in the Summer Session, 1938.)
- 336f. American Literature.—A study of the chief American poets and prose writers including those of the Colonial and Revolutionary periods and the early nineteenth century. Prerequisite: English 12. Credit value: Three semester hours. (Given in 1938-1939.)
- 337s. American Literature.—A study of the most important American poets and prose writers of the middle and late nineteenth century. Prerequisite: English 12. Credit value: Three semester hours. (Given in 1938-1939.)
- 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: English 12. Credit value: Three semester hours. (Given in 1938-1939.)
- 340s. The Poetry 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. (Given in 1938-1939.)
- s41f. 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 masterpieces from various countries. Prerequisite: English 12. Credit value: Three semester hours. (To be offered in 1939-1940.)
- 542s. Life 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. (To be offered in 1939-1940.)

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.

- s13f. 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. Formerly Journalism 346. (Given in 1938-1939.)
- sees. 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. Formerly Journalism 310. (To be offered in 1939-1940.)

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- 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.
- 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. (Formerly Journalism 320.)

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 theater. 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 semester hours. (Given in 1938-1939; to be offered in 1939-1940.)

318s. Play Production.—A continuation of Public Speaking 312, with emphasis on casting, rehearsing, and directing. Prerequisite: Public Speaking 312. Credit value: Three semester hours. (Given in 1938-1939; to be offered in 1939-1940.)

GEOLOGY

PROFESSOR QUINN; ASSOCIATE PROFESSOR NELSON; INSTRUCTOR STRAIN

- 1. Principles of General Geology.—Designed to provide a critical study of the fundamental principles of physiography 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 of Metallic Minerals.—Beginning course in the determination of minerals. The course will include the study of crystallography and the determination of the more common minerals by means of their physical properties, the blowpipe, and wet methods. Prerequisite: Geology 1 and Chemistry 1 (Chemistry 801 for engineering students) in advance or concurrently. One lecture and six hours of laboratory work. Laboratory fee, \$2. Credit value: Three semester hours.
- 217s. Mineralogy of the Non-Metallic Minerals.—A continuation of Geology 316. Special emphasis is given to the study of the rockforming minerals and to those of economic importance. Prerequisite: Geology 316. Six hours of laboratory work. Laboratory fee, \$2. Credit value: Two semester hours.
- 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 321. Credit value: Three semester hours.
- 4238. Paleontology.—Study of fossil invertebrates including a brief outline of the stratigraphy of the Southwest. Prerequisite:

- Geology 321. Two lectures and six laboratory hours. Laboratory fee, \$4. Credit value: Four semester hours. (Given in 1938-1939; to be omitted in 1939-1940.)
- 828. Paleontology and Stratigraphy.—A general introduction to the study of invertebrate fossils followed by a comprehensive study of stratigraphy, with special emphasis on that of West Texas and the Southwest. Prerequisite: Geology 217. Two lectures and six laboratory hours. The last seven semester hours of this course count as advanced. Credit value: Eight semester hours. (To be omitted in 1939-1940.)
- 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. Laboratory fee, \$4. Credit value: Four semester hours. (Not given in 1938-1939; to be offered in 1939-1940.)
- s61f. Advanced Economic Geology.—Discussions and original papers on new developments in the field of ore deposits. Methods of geological examination; preparation of geological reports and manuscripts; bibliographical research; applications of the principles of ore deposition to the search for ore; advanced consideration of the mineral deposits of Texas. Prerequisite: Geology 427 in advance or concurrently and 322. Two lectures and three laboratory hours. Laboratory fee, \$2. Credit value: Three semester hours.
- 463f. Geology of Petroleum, the Fuels and the Non-Metallics.—Study of the origin, 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. (Not given in 1938-1939; to be offered in 1939-1940.)
- 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 as evidence 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. (Given as Geology 364f in 1938-1939; to be offered as Geology 264f in 1939-1940.)
- 365s. Field Geology.—A continuation of Geology 264. Prerequisite: Geology 264. One lecture and two afternoons in field. Labora-

tory fee, \$2. Credit value: Three semester hours. (Given as Geology 565s in 1938-1939; to be omitted in 1939-1940.)

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, 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. (To be offered in 1939-1940.)
- 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. (To be offered in 1939-1940.)
- \$15f. 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: Twelve semester hours in history. Credit value: Three semester hours. (To be offered in 1939-1940.)
- 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. (To be offered in 1939-1940.)
- 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. (To be offered in 1939-1940.)
- 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. (To be offered in 1939-1940.)
- 385f. 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. (To be offered in 1939-1940.)
- 386s. 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.)

- \$47f. 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 omitted in 1939-1940.)
- 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 omitted in 1939-1940.)
- 351f. French Revolution and Napoleon.—A study of Europe on the eve of the Revolution, with especial emphasis on France; the calling of the Estates-General and its transformation into a Constituent Assembly; the Constitution of 1791; the Terror; the Directory and Consulate; the First Empire; Napoleon's social, political and economic reforms; the coalitions; final downfall of Napoleon; appraisal of the effect of the Revolution. Prerequisite: Twelve semester hours in history. Credit value: Three semester hours. (Given in summer of 1938.)
- 358f. A Survey of Political and Social Britain 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. (Given in 1938-1939; to be omitted in 1939-1940.)
- 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. (Given in 1938-1939; to be omitted in 1939-1940.)
- 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. (Given in 1938-1939; to be omitted in 1939-1940.)
- 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. (Given in 1938-1939; to be omitted in 1939-1940.)
- 357f. Contemporary Europe.—Background and historical significance of socialism, communism, fascism, nazism. Prerequisite:

Twelve semester hours in history. Credit value: Three semester hours. (Given in summer of 1938.)

359s. Anglo-American Southwest.—American expansion into Texas and the Far Southwest; filibustering expeditions into Texas; Pike and early exploratory expeditions; the Austins and American colonization of Texas; Santa Fé trade; Texas Revolution and Independence; Texas Republic; English and American rivalry in Texas and California; Mexican War and acquisition of California. Prerequisite: Twelve semester hours in history. Credit value: Three semester hours. (Given in summer of 1938.)

Government

310fs and 10. American Government.—The government of the United States—national, state, and local—with special emphasis upon the Constitutions 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.

of Nations.—The rise of English political institutions; a critical analysis of the English and British systems of government with special emphasis on their practical workings; the larger problems of the British Empire and Commonwealth of Nations. Prerequisite: Government 310 and 311, or 10. Credit value: Three semester hours. (Given in 1938-1939; to be omitted in 1939-1940.)

324s. The Governments of Continental Europe.—The governments and politics of France, Italy, Switzerland, Germany, and Russia, with some attention given to lesser European countries; recent revolutionary and constitutional changes are emphasized. Prerequisite: Government 310 and 311, or 10. Credit value: Three semester hours. (Given in 1938-1939; to be omitted in 1939-1940.)

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. (To be offered in 1939-1940.)

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. (To be offered in 1939-1940.)

348f. The Forcign 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. (Given in summer of 1938.)

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. (Given in summer of 1938.)

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 value: Three semester hours.
- 345f. 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. (To be offered in 1939-1940.)
- 347f. 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. (Given in 1938-1939; to be omitted in 1939-1940.)
- 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. (To be offered in 1939-1940.)

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. (To be offered in 1939-1940.)

HOME MANAGEMENT

INSTRUCTOR POOL

- \$11f. Food Management.—A practical course of value to women students and special students interested in the marketing, storing, preparing, and serving of foods as related to the efficient management of the home and the family. Attention will be given, also, to the functions of the hostess in the arrangement of foods for teas, receptions, dinners, and entertainments in the home. Prerequisite: Sophomore standing. Credit value: Three semester hours. (Given in 1938-1939; to be offered in 1939-1940.)
- 512s. Management of Family Relationships.—A course designed to present a study of the functions of interior decoration and all furnishings in a well-balanced home. The value of efficient budgeting of time, money, interests, work, and leisure by the home-maker as related to family life, will be emphasized. Prerequisite: Sophomore standing. Credit value: Three semester hours. (Given in 1938-1939; to be offered in 1939-1940.)

MATHEMATICS AND PHYSICS

PROFESSOR KNAPP; ASSOCIATE PROFESSOR DURKEE; ASSISTANT PROFESSOR TURRITTIN; INSTRUCTORS BARNES, LEECH, LILES

Mathematics

- 808. 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 introductory 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.

305/s. 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.)

307s. 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: Mathematic 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, mechanics,

and electricity. Prerequisite: Mathematics 325. 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 alternate years; to be offered in 1939-1940.)

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.
- 221s. Problems in Physics.—A practical course in the application of advanced methods in the solution of a wide range of physical problems. Prerequisite: Mathematics 13 and eight semester hours in physics. 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.

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 alternate years; to be offered in 1939-1940.)

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MINING AND METALLURGY

PROFESSOR GRAHAM; ASSISTANT PROFESSORS COLLINS, 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.
- \$21f. 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. Prerequisite: Mining 322. Eight hours daily for two weeks immediately following the close of the Spring semester. Laboratory fee, \$2. Credit value: Two semester hours.
- 260f. Advanced Mining.—A detailed study of underground transport, hoisting plant, shaft pockets, ore bins, compressed air plant, mechanical ventilation, pumping, and electric power for mine service. Prerequisite: Senior standing. Two lectures. Credit value: Two semester hours.
- 361s. Advanced Mining.—A continuation of the work given in Mining 260. Also, 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. One lecture and six laboratory hours. Laboratory fee, \$2. Credit value: Three semester hours.

67. 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: Six 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.

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 1938 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.

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.

361f. 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.
- 463f. Ore Dressing and Milling.—A continuation of Metallurgy 423, with the emphasis laid upon ore testing and plant design. Prerequisite: Metallurgy 423. Two lectures and six laboratory hours. Laboratory fee, \$4. Credit value: Four semester hours.
- 263f. Ore Dressing and Milling.—Metallurgy 463 without the laboratory. Prerequisite: Metallurgy 423. Two lectures. Credit value: Two semester hours.
- 264s. 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: Two semester hours.
- 478s. Metallography.—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, OLMSTED; 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.

The department offers majors in Spanish and French.

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 Reading and Elementary Survey of Literature.—Reading of an easy anthology and of selected masterpieces. Oral and written reports, weekly conferences and assigned outside readings; outline of the history of the literature. Prerequisite: Course 1. Credit value: Six semester hours.

French

- 335f. Modern Novel: Early Period.—Reading of eighteenth century novelists such as Lesage, L'abbé Prévost and Bernadin de St. Pierre and of 19th century novelists up to about 1850. Prerequisite: French 12. Credit value: Three semester hours. (To be offered in 1939-1940; to be omitted in 1940-1941.)
- 236f. Modern Drama: Early Period.—Plays by followers of Molière, such as Lesage, Marivaux and Beaumarchais will be read as well as dramas by Hugo, de Vigny, and Musset. Prerequisite: French 12. Credit value: Three semester hours. (Given in 1938-1939; to be omitted in 1939-1940.)
- 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. (To be offered in 1939-1940; to be omitted in 1940-1941.)

340s. Modern Drama: Later Period.—A study of the naturalistic and social drama from Becque to Brieux. Parallel readings and reports. Prerequisite: French 12. Credit value: Three semester hours. (Given in 1938-1939; to be omitted in 1939-1940.)

Spanish

- 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, Calderón de la Barca, Ruiz de Alarcón, Moreto, and others. Readings of selected masterpieces; outside readings and reports. Prerequisite: Spanish 12. Credit value: Three semester hours. (To be offered in 1939-1940.)
- 382s. 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. (To be offered in 1939-1940.)
- \$33s. Masterpieces of Spanish Literature.—A study of the generally considered outstanding works of various literary types, with emphasis on the modern. Assigned readings and reports. Prerequisite: Spanish 12. Credit value: Three semester hours. (Given in Summer Session, 1938.)
- 384f. 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. (To be offered in 1939-1940.
- 385f. 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, Fernán Caballero, Pedro Antonio de Alarcón, Juan Valera, José María de Pereda, Pérez Galdós, etc.; outside reading reports. Prerequisite: Spanish 12. Credit value: Three semester hours. (Given in 1938-1939; to be omitted in 1939-1940.)
- 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 Fernández de Moratín, Martínez de la Rosa, Bretón de los Herreros, López de Ayala, Tamayo y Baus, etc.; outside reading reports. Prerequisite: Spanish 12. Credit value: Three semester hours. (Given in 1938-1939; to be omitted in 1939-1940.)

\$378. 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: Pérez, Galdós, Pardo Bazán, Palacio Valdes, Blasco Ibáñez, Pío Baroja, Ricardo León, Pérez de Ayala, etc.; outside reading reports. Prerequisite: Spanish 12. Credit value: Three semester hours. (Given in 1938-1939; to be omitted in 1939-1940.)

339f. The Cuento and Short Story in Spain.—Study of various types of the shorter fictional forms in Spain and Spanish America, from the time of Juan Manuel to the present. Emphasis on the modern period. Outside readings and reports. Prerequisite: Spanish 12. Credit value: Three semester hours. (Given in Summer Session, 1938.)

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, Pérez, Galdós, Jacinto Benavente, Linares Rivas, Los Quinteros, Martínez Sierra, Eduardo Marquina, etc.; outside reading reports. Prerequisite: Spanish 12. Credit value: Three semester hours. (Given in 1938-1939; to be omitted in 1939-1940.)

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. (To be offered in 1939-1940.)

MUSIC

INSTRUCTOR JOHNSON

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 practice and maneuvers.



Five hours per week throughout the year. Prerequisite: Music 01. Credit value: Three semester hours.

- 321. Instrumental 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.
- 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

- \$14Kf. Music Theory.—Notation, time, signatures, major and minor scales, diatonic and chromatic intervals, transposition, transcriptions; instruments of the band and orchestra, baton technique with practical demonstration as applied to the teaching of music in the public schools. Prerequisite: Sophomore standing. Credit value: Three semester hours. (Given in summer, 1938.)
- 351f. Music in the Elementary Grades.—A course designed to meet the immediate needs of elementary-school music teachers in the Southwest. Open discussion of various problems with an observation schedule worked out to cover these problems. Time will be spent on baton technique and elementary theory along with actual participation in the direction of instrumental as well as singing groups. Program suggestions for child voice considering the music from the standpoint of melodic and harmonic construction and its adaptability as correlating material. Our own State's music bulletin discussed along with programs of other states. Prerequisite: Education 314 and 318, or their equivalent; and six semester hours of music, or the equivalent. Credit value: Three semester hours. (Given in 1938-1939.)
- 352s. Music in the High School.—Instrumental and vocal teaching technique in the high school along with suggestions in motivating interest and in organizing bands and orchestras. Individual participation and special abservations will provide the practical experience necessary. Prerequisite: Education 316 and 317, or their equivalent; and six semester hours of music, or the equivalent. Credit value: Three semester hourse. (Given in 1938-1939.)

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. (To be offered in 1939-1940.)
- 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. (Given in 1938-1939; to be omitted in 1939-1940.)

- 315s. Ethics.—Introductory survey of the evolution of moral codes and ideals; reflective morality; conduct and character; conflicts of interests; personal and social ethics. Prerequisites: Sophomore standing. Credit value: Three semester hours. (Given in 1938-1939; to be omitted in 1939-1940.)
- 316s. Philosophies 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. (Given in 1938-1939; to be omitted in 1939-1940.)
- 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. (To be offered in 1939-1940.)

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 value: Three semester hours.
- s20f. 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. (To be offered in 1939-1940.)
- 344s. Mental Hygiens.—Prerequisite: Six semester hours in psychology, or in philosophy, or in both. Credit value: Three semester hours. (To be offered in 1939-1940.)

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DEGREES CONFERRED IN AUGUST, 1938

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Warne, John David

Prado, Miguel

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Puller, Scale	Hughes, Mrs. Mary

King, George Dallas King, James El Paso Kirby, Kenneth El Paso Kirby, Kenneth El Paso Kirby, Smith, Selden El Paso Kirk, Leonard Brady Kirkpatrick, Lollie El Paso Kistenmacher, Irby El Paso Kistenmacher, Irby El Paso Kistenmacher, Irby El Paso Klein, Raymond El Paso Klein, Raymond El Paso Klein, Charles Washington D. C. Knight, Frank El Paso Kranathor, Terry El Paso Krebs, John Odessa Krebs, John Odessa Kriechbaum James El Paso Lakfriechbaum James El Paso Lambert, Cy El Paso Lambert, Gy El Paso Lambert, Joe El Paso Lambert, Joe El Paso Lambert, Joe El Paso Lambert, Fred El Paso Lamcaster, Jonathon Van Horn Lance, O Paul El Paso Lassetter, Robert El Paso Lassetter, Robert El Paso Lassetter, Kignini El Paso Lassetter, Virginia El Paso Latham, Jess Amarillo Lavender, Eunice El Paso Lawless, Raymond El Paso Lawy, Horace El Paso	McNail Elizabeth
King James El Paso	McNail, Thelma
Kirby Kenneth El Paso	McNeil, IrvingEl Pa
Kirby-Smith, Selden El Paso	McNeil, Mary Elizabeth El Pa
Kirk, LeonardBrady	MacLane, C. E El Pa
Kirkpatrick, LollieEl Paso	Maddox, MaudeEl Pa
Kistenmacher, Irby	Madland, R. D El Pa
Kitson, Nancy	Maese, Beatriz Pl Pa
Klein, Raymond El Paso	Manoney, Leo
Kline, Charles	Monasse, S
inight, Frank El Paso	Mann, Douglas Et Pa
Aranithor, Terry	Mostin Mrs Ero Fl Pa
Aricobhaum Iaman El Paga	Mortin Margaret El Pa
nedland Maney FI Page	Mortin Peggy El Pa
ambert Cy Fl Paso	Martin, Robert El Pa
embert losEl Paso	Martin, Vivian El Pa
ambeth, J. D El Paso	Martindale, Dorothy El Pa
amneri. Fred El Paso	Martinez, Roberto
ancaster, Jonathon Van Horn	Martinez, Victor
ance, O. Paul	Mason, Mary
Lance, John El Paso	Mateus, Carlos El Pa
Lassetter, Jean	Matheson, Riley Hedrick, Oki
assetter, RobertEl Paso	Matthews, Horace
assiter. Virginia El Paso	Maurice, James
atham, JessAmarillo	May O D Livingston I
avender, Eunice	May field Garaldina Fl Pa
avigne, virginia	Mayfield William El Pa
awe Lois F! Pero	Medina Jose El Pa
av Horace El Paso	Meenehan, Vincent Washington, D.
avne Julian El Paso	Martin, Robert El Pa Martin, Vivian El Pa Martindale, Dorothy El Pa Martindale, Dorothy El Pa Martinez, Roberto El Pa Mason, Mary El Pa Mason, Mary El Pa Matcus, Carlos El Pa Matleson, Riley Hedrick, Okl Matthews, Horace Lame Maurice James Odes Maxon, Louise El Pa May, O. P Livingston L Mayfield, Geraldine El Pa Mayfield, William El Pa Medina, Jose El Pa Medina, Jose El Pa Meenehan, Vincent Washington, D Melendez, Jose El Pa Mendoza, Cesar El Pa
ec. Henry El Paso	Mendoza, CesarEl Pa
eonard, Jeanne ClaireEl Paso	Meyer, Wilma, El Pa
eonard, Mary Louise El Paso	Mendoza, Cesar El Pa Meyer, Wilma El Pa Michael, Bill El Pa
evagood, EdithEl Paso	Mier, Carlos El Pa
ewis, R. T.,	Miles, Janie El Pa
_awiss. Raymond El Paso _aws. Lois El Paso _ay, Horace El Paso El Paso _ayne, Julian El Paso El Paso _ece, Henry El Paso eonard, Jeanne Claire El Paso _eonard, Mery Louise El Paso evagood, Edith El Paso _ewis, R. T El Paso ewis, R. T El Paso _ichtman, Norman El Paso eichtman, El Paso _icch, William El Paso eichtman, El Paso _iccn, Francisco El Paso el Paso	Micrael, Bill Mier, Carlos El Pa Miles, Janie El Pa Miles, Marie Ann El Pa Miles, Marie Ann El Pa
ickel, William El Paso	Miller, Frances El Pa
icon, Francisco El Paso	Miles, Marie Ann. El Pa Miller, Frances El Pa Miller, Mrs. Fred El Pa Miller, Mrs. Fred El Pa Miller, Mrs. Helen El Pa Miller, Mrs. Helen El Pa Miller, W E El Pa Miller, W E El Pa Miller, W H El Pa Miller, W H El Pa Miller, Mrs. F. W El Pa Miller, Mrs. F. W El Pa Minatra, Jack Gouldbux Mirabel Solomon El Pa Miskimins. Harry El Pa Miskimins. Harry El Pa Miskimins.
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indlef Mary Louise El Paso	Miller, W. E El Pa
ink Felice El Paso	Miller, W. H El Pa
inn Jack	Millican, Mrs. F. W El Pa
ivingston, MorganFt. Stockton	Minatre, Jack
izarraga, ServandoEl Paso	Mirabel Solomon
ockout, Edward	Miskimins, Harry El Pa
oewenstein, Robert Ysleta	Mitcham, RobertEl Pa
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ooney, MillonEl Paso	Mitchell Theodoria El Do
ora, CiaraEl Paso	Mirabel Solomon El Pa Miskimins, Harry El Pa Mitcham, Robert El Pa Mitchell, Mary Ann El Pa Mitchell, Mary Ann El Pa Mitchell, Theodosia El Pa Mitchoff, Richard El Pa
ord, WEl Paso	Monroe, Donald El Pa
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Ave. Tom El Dosa	Montague, Harry
owey Mitchell Lawton Okla	Montenegro, AlfonsoJuarez. Me
uckett. Joe	Montero, C. T La Tu
vles, Mrs. Mamie El Paso	Mooney, PatriciaEl Pa
ynch, DonaldRay, Ariz.	Mooney, Mrs. Pauline El Pa
ynch, Sue Jean El Paso	Moor, Mary Lou
ynde, William	Moore, Harry
yon, Mary EleanorEl Paso	Moore, RichardEl Pa
von. HobertEl Paso	More Salvador
D. D	Mora, Salvador
yons, Peggy El Paso	Moreles Antonio El Do
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yons, Peggy El Paso AcAdoo, Faye El Paso AcCall, Martha El Paso Middand	Morales, Antonio El Pa Morales, Arturo El Pa Moran Mary
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yons, Peggy El Paso AcAdoo, Paye El Paso AcCall, Marths Ei Paso AcCann, Leo Midland AcClure, James El Paso AcClure, Stelma Roy El Paso	Morales, Antonio
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Yons, Peggy	Morsies, Antonio
yons, Peggy El Paso AcAdoo, Faye El Paso AcCall, Martha El Paso AcCann, Leo Midland AcClure, James El Paso AcClure, Stelma Roy El Paso AcCord, Frank El Paso AcCormick, Francis El Paso AcCormick, Francis El Paso	Morales, Antonio El Pa Morales, Arturo El Pa Moran, Mary El Pa Morgan, R. C La Tu Morris, Dorothy F El Pa Morrow, Virginia El Pa Morrow, W La Tu Mosley, Harold El Pa
Joons, Peggy. El Paso AcAdoo, Faye El Paso AcCall, Martha El Paso AcCann, Leo Midland AcClure, James El Paso AcClure, Stelma Roy El Paso AcCord, Frank El Paso AcCormick, Francis El Paso AcCormick, Ellen El Paso AcCormick, Ellen El Paso AcCormick, Howard El Paso	Morales, Antonio El Pa Morales, Arturo El Pa Moran, Mary El Pa Morgau, R. C La Tu Morris, Dorothy F El Pa Morrow, Virginia El Pa Morrow, W La Tu Mosley, Harold El Pa Mousier, Maria Luisa El Pa
ichtman Norman E Paso ickel, William E Paso ickel, William E Paso ickel, William E Paso ickel, William E Paso ight, Dorris E Paso indlof, Ed E Paso indlof, Ed E Paso indlof, Mary Louise E Paso indlof, Mary Louise E Paso inn, Jack E Paso inn, Jack Humboldt, Neb. ivingston, Morgan Ft. Stockton izzarraga Servendo E Paso ockout, Edward E Paso oord, W Seleaso oord, W E Paso oord, W E Paso ove, Mrs. Myrtle E Paso ove, Mrs. Myrtle E Paso ove, Tom E Paso ove, Nos Mamie E Paso ove, Nos Mamie E Paso yonch, Donald Ray, Ariz ynch, Sue Jean E Paso yon, Mary Eleanor E Paso yon, Robert E Paso yon, Robert E Paso okcadoo, Faye E Paso McAdoo, Faye E Paso McCall, Martha E Paso McCormick, Francis E Paso McCormick, Francis E Paso McCormick, Howard	Morales, Antonio
AcAdoo, Faye. El Paso AcCall, Martha El Paso AcCall, Martha El Paso AcCall, Martha El Paso AcCann, Leo Midhand AcClure, James El Paso AcClure, Stelma Roy El Paso AcCord, Frank El Paso AcCord, Frank El Paso AcCordick, Francis El Paso AcCordick, Ellen El Paso AcCordick, Ellen El Paso AcCordick, Howard El Paso AcCordick, Howard El Paso AcCutchan, Roy El Paso El Paso AcCutchan, Roy El Paso El Pa	Morales, Antonio
Jonns, Peggy El Paso McAdoo, Faye El Paso McCall, Martha El Paso McCall, Martha El Paso McCann, Leo Midland McClure, James El Paso McClure, Stelma Roy El Paso McCord, Frank El Paso McCormick, Francis El Paso McCormick, Ellen El Paso McCormick, Howard El Paso McCormick, Howard El Paso McCotchan, Roy El Paso McDaniel, L M El Paso McDonnell, Ada El Paso	Morales, Antonio
yons, Peggy El Paso McAdoo, Faye El Paso McCall, Martha El Paso McCall, Martha El Paso McClure, Stelma Roy El Paso McClure, Stelma Roy El Paso McCord, Frank El Paso McCormick, Francis El Paso McCormick, Francis El Paso McCormick, Howard El Paso McCotmick, Howard El Paso McCutchan, Roy El Paso McCutchan, Roy El Paso McDonnell, Margaret El Paso McDonnell, Magaret El Paso McMillan, Joe Waelder	Mithoff, Richard El Pa Monroe, Donald El Pa Monroe, Ruth El Pa Montague, Harry El Pa Montenegro, Alfonso Juarez, Me Montenegro, Alfonso Juarez, Me Montero, C. T. La Tu Mooney, Patricia El Pa Mooney, Mrs. Pauline El Pa Moor, Mary Lou El Pa Moore, Richard El Pa Moore, Richard El Pa Moore, Richard El Pa Moore, Salvador El Pa Morales, Antonio El Pa Morales, Antonio El Pa Morales, Arturo El Pa Moran, Mary El Pa Moron, Mary El Pa Moron, Ww La Tu Morris, Dorothy F El Pa Morrow, Virginia El Pa Morrow, W La Tu Mosley, Harold El Pa Mousier, Maria Luisa El Pa Moye, Edwin El Pa Muyeller, William El Pa Mumphey, Robert El Pa Murphey, Robert El Pa Murphey, Frances San Anton

Myers, Raymond Anthony, N. M. Nalley, Hardy Dallas Nance, T. J. El Paso Napoles, Cecilia El Paso Nations, Hildon El Paso Nations, Hildon El Paso Naylor, James El Paso Neeson, Mary El Paso Neeson, Mary El Paso Nelson, Lloyd El Paso Neugebauer, Eugene El Paso Newell, Oliver El Paso Newman, Frances El Paso Newman, Tom El Paso Niand, Ada El Paso Niand, Ada El Paso Norman, Val El Paso	
Myers, Haymond Anthony, N. M.	Rains, Marjory El Paso Ramos, Filemon El Paso
Nalley, Hardy	Ramos, FilemonEl Paso
Nance, 1. J El Paso	Randall, Bill El Paso
Nations Hildon El Paso	Randel, Ariel
Navior, James El Paso	Ransom, Hayden Seminole Okla
Neeson, Mary El Paso	Rathbun, LaVonne
Nelson, Lloyd El Paso	Rathmell, W. RLa Tuna
Neugebauer, EugeneEl Paso	Redd, Raymond,
Newell, Oliver Elizabeth, N. J.	Reed, Joyce
Newman, Frances El Paso	Redd, Haymond El Paso Reed, Joyce El Paso Reed, Samuel El Paso Resley, Louisc Normangee Reynolds, Melville El Paso Reynolds, William El Paso Rheinheimer, Emilie El Paso Rheinheimer, Frieda El Paso Rice Alonzo El Paso
Nitend Ado El Doco	Revealds Malville El Dese
Nitand, Ada	Reynolds William El Paso
O'Kcelle, Adelbert El Paso	Rheinheimer Emilie El Paso
Old. Margaret El Paso	Rheinbeimer, Frieda El Paso
Oldham, Flelen	Rice, Alonzo El Paso Rice, Virginia El Paso Richards, Lorena El Paso
Oliver, EdwardEl Paso	Rice, Virginia
Oliver, Mary El Paso	Bichards, Lorena El Paso
Olson, John El Paso	Riggins, Lee El Paso
Oliver, Edward Oliver, Mary Oliver, Mary Oliver, Mary Olson, John El Paso O'Neal, Kermit. El Paso O'Neal, Kermit. El Paso O'Reilly, James. El Paso Page, Mary El Paso Pajari, Raymond. Brooklyn, N. Y. Palmer, Howell. Dallas Paredes, Paso Paredes, Paso Patterson, Mary Lee El Paso Patton, Mary Lee Paso Patton, Mary Lee Paso Patton, Mary Lee Paso Payne, Dayton, Jr El Paso Payne, Dayton, Jr El Paso Payne, Jenny Pearce, Odie. Anson Peden, Jack Roscoe Peevey, Katherine. Marfa Pell, George El Paso Penick, Billy Sonora Pennington, Barry Georgetown Perez, Charles. El Paso Perez, Luis El Paso Perez, Nicolas El Paso Perez, Nicolas El Paso Perez, Nicolas El Paso Perez, Nicolas El Paso Perez, Porfirio El Paso Pere	Rigney, Ann E Paso Rike, Billy E Paso Rike, Billy E Paso Rinehart, Tiffany E Paso Rister, Eugene E Paso Rivas, Angel E Paso
O'Pailly James El Paso	Binebart Tiffany El Dass
Ortiz Ignacio Fl Peso	Rister Fudone Fl Doro
Osburn, Robert El Paso	Rivas, Angel El Paso
Overton, Charles	Rivera, Carlos El Paso Roberts, Clodine El Paso Roberts, El Paso Roberts, El Paso
Owen, JohnLa Tuna	Roberts, Clodine, El Paso
Page, MaryEl Paso	Roberts, DanoraEl Paso
Page, Sallie El Paso	Roberts Danora
Paine, Bettye El Paso	Roberts, Walton El Paso
Pajari, Raymond Brooklyn, N. Y.	Robinson, Gene
Paimer, Howell Dallas	Robinson, L. H El Paso
Paredes, Pelipe	Robinson, Mary Jo
Patierson Mary Lee El Daco	Robinson, Patricia, El Paso
Patton Mary Jane El Paso	Roby Cynthia El Paro
Paxton, Mavis El Paso	Roden, Mildred El Paso
Payne, Dayton, Jr El Paso	Rodgers, Pollard El Paso
Payne, Jenny El Paso	Rodin, HarryEl Paso
Pearce, L. I	Rodney, Mrs. Imogene El Paso
Pearce, Odie	Rodriguez, Maria El Paso
Peden, Jack	Hodriguez, SalvadorJuarez, Mex,
Pell George El Doco	Pomo Estelo El Paso
Penick, Billy. Sonora	Roper Maxine El Paso
Pennington, Barry	Boper, Mont. El Pago
Perez, Charles	Rose, DanOdessa
Perez, Luis El Paso	Rosenbaum, ArthurEl Paso
Perez, Nicolas El Paso Perez, Porfirio El Paso	Rosenberg, Sam
Perez, PorlirioEl Paso	Roslyn, Margaret El Paso
Perez, Soledad	Rubio, FernandoJuarez, Mex.
Perez, Soledad F. Paso Perez-Rul, Alberto E Paso Peters, Mary Rena El Paso Peterson, Dick El Paso	Social Bill El Dose
Peterson, Dick El Paso	Salcedo Gilbert Fl Pago
Peterson, J. F El Paso	Saldana, Nicanor El Paso
Peterson, Walter El Paso	Salver Mrs. Rose El Paso
Phillips, Jack El Paso	Sanchez, Lupe El Paso
Peterson, Dick El Paso Peterson, J. F. E. Paso Peterson, Walter El Paso Phillips, Jack El Paso Phillips, Sallie El Paso Pickle, Judith Big Spring Pillow, Mrs. Lucille El Paso Pitts, Howard El Paso Pamer Marion El Paso	Sanders, VirgilBig Spring
Pickle, Judith Big Spring	Schwankhaus, Annie El Paso
Pille Upword	Scotten, Wilma El Paso
Pomor Morion El Paso	Shamaley, John El Paso
	Sharlaidy, Lec
Porras Jose M El Paso	Sharp Mrs Addie Ice El Dose
Porter, David	Shenard Carl Huntsville
Porter, Vayne El Paso	Sherman, Bay El Paso
Poske, Alma	Shively, Russell Dallas
Poske, Jane El Paso	Shoemaker, W. B La Tuna
Prado, Enrique El Paso	Simon, Joseph El Paso
Prado, Miguel El Paso	Simpson, AndrewEl Paso
Price Orion Chicago	Simpson, Nell FrancesLamesa
Prieto Juan	Skidmore Fronk
Prieto Philip El Paso	Slauter Lee
Prim, Robert Terrell	Sleet Harwell Fi Dosa
Prothro, Doris El Paso	Smith Emma Lee El Pasa
Pruitt, French El Paso	Smith, Floyd El Paso
Ponsford, Florence El Paso Porras, Jose M El Paso Portars, Jose M El Paso Porter, David Coleman Porter, Vayne El Paso Poske, Alma El Paso Poske, Alma El Paso Poske, Jane El Paso Prado, Enrique El Paso Prado, Miguel El Paso Prati, Joe El Paso Prati, Joe El Paso Pricto, Juan El Paso Pricto, Juan El Paso Pricto, Philip El Paso Printo, Doris El Paso Printo, Doris El Paso Pruitt, French El Paso Pruitt, French El Paso Puente, Victor El Paso Quevedo, Alberto El Paso Quevedo, Alberto El Paso Quevedo, Alberto El Paso Quevedo, Alberto El Paso	Roby, Cynthia. El Paso Roden, Mildred El Paso Rodgers, Pollard El Paso Rodgers, Pollard El Paso Rodin, Harry El Paso Rodin, Harry El Paso Rodriguez, Maria El Paso Rodriguez, Salvador Juaroz, Mex. Rodriguez, Siomara El Paso Romo, Estela El Paso Romo, Estela El Paso Roper, Maxine El Paso Roper, Mont El Paso Rose, Dan Odessa Rosenbaum, Arthur El Paso Rosenberg, Sam El Paso Roslyn, Margaret El Paso Rubio, Fernando Juarez, Mex. Rybaczek, Eugene Terryville Conn. Saflold, Bill El Paso Salcedo, Gilbert El Paso Salcedo, Gilbert El Paso Saldana, Nicanor El Paso Saldana, Nicanor El Paso Sanchers, Virgil Big Spring Schwankhaus, Annie El Paso Sanchers, Virgil Big Spring Schwankhaus, Annie El Paso Shamaley, John El Paso Shamaley, Lee El Paso Shamaley, Lee El Paso Shamaley, Lee El Paso Shampleigh, Robert El Paso Sharp, Mrs. Addie Joe El Paso Sharpon, Nell Frances Lamesa Simon, Joseph El Paso Simpson, Nell Frances Lamesa Simpson, Nell Frances Lamesa Simpson, Nell Frances El Paso Simpson, Nell Fr
Quevedo, Alberto El Paso	Smith, Otto Eufaula, Okla.
Quick, Miriam	Smith, PaulineFt. Worth

Snider, Robert El Paso Sobral, Daniel El Paso Soltner, Lucille El Paso Sommerville, Naomi Ganutillo Sonnichsen, Augusta El Paso Sorensen, Harry El Paso Soucek, Mae El Paso Sparks, Glynn El Paso Specht, Isabel El Paso Stablein, Betty El Paso	Villalobos, Carmen El Paso Villareal, Federico Monterrey, Mex. Villareal, Rodolfo Monterrey, Mex. Vinson, Benita El Paso
Sobral, Daniel El Paso	Villareal, Federico Monterrey, Mex.
Sommerville Neomi Capatillo	Villarcal, Hodolfo Monterrey, Mex.
Sonnichsen Augusta El Paso	Vinson, David El Paso
Sorensen, Harry El Paso	Voelzel, Walter El Paso
Soucek, Mae El Paso	Vinson, David El Paso Voelzel, Walter El Paso Wade, Welson Rotan Wagner, Charles El Paso Wanweight, Henry El Paso
Sparks, Glynn	Wagner, Charles El Paso
Stablein Retty El Paso	Waller Allen El Paso
Stacy, Jim	Walker, Clarence El Pago
Stacy, Mary Gray El Paso	Wainwright, Henry El Paso Walker, Allen El Paso Walker, Clarence El Paso Walker, Clarence O Madill, Okla. Walker, Lytle El Paso Walker, Mrs. R. W El Paso Walker, Mrs. R. W El Paso Waltace, Opal El Paso Waltrip, Jack La Tuna Walz, Rosalie El Paso Ward, Mrs. Nora El Paso Wardy, Jim El Paso Warren, Hosea Hico
Stansbury, Virginia	Walker, Lytle El Paso
Stark Retty Fl Poso	Walker, Mrs. R. WEl Paso Wallace Opel
Starkey, Jack	Walton, Marie El Paso
Steadman, Mrs. Emma El Paso	Waltrip, JackLa Tuna
Steele, Harl, Jr	Walz, Rosalie El Paso
Stevens Margaret El Page	Ward, Mrs. NoraEl Paso
Stevenson, Boynton El Paso	Warren Hosea Hico
Stice, Kenneth Marietta, Okla.	Warwick, BillStamford
Stiles, RayEl Paso	Watters, KathrynEl Paso
Stokes C I La Tuna	Watzke, Dick
Stone, Roy D Monrovia, Calif.	Wraver Margaret El Paso
Sparks, Glynn El Paso Sparks, Glynn El Paso Specht, Isabel El Paso Stablein, Betty El Paso Stablein, Betty El Paso Stacy, Jim El Paso Stacy, Jim El Paso Stacy, Mary Gray El Paso Stanton, Elbert Gladewater Stark, Betty El Paso Stanton, Elbert Gladewater Stark, Betty El Paso Steadman, Mrs. Emma El Paso Steedman, Mrs. Emma El Paso Steedman, Mrs. Emma El Paso Stevens, Claribel Smithville Stevens, Margaret El Paso Stevens, Margaret El Paso Stevenson, Boynton El Paso Stice, Kenneth Marietta, Okla Stiles, Ray El Paso Stirman, Marion El Paso Stirman, Marion El Paso Stokes, C J La Tuna Stone, Roy D Monrova, Catif, Stowe, Jimmie Lou El Paso Stowell, Alta F El Paso Stroede, Bess El Paso Strubblefield, Jackie Canutillo Stull, Charles El Paso Stullivan, Eugene El Paso Sullivan, Patrick El Paso Sullivan, Patrick El Paso Sullivan, Patrick El Paso Sullivan, Virginia El Paso Sullivan, Virginia	Wardy, Jim El Paso Warren, Hosea Hico Warwick, Bill Stamford Watters, Kathryn El Paso Watzke, Dick El Paso Wotzke, Donald El Paso Weaver, Margaret El Paso Webb, James Ln Tuna Webb, Malcolm El Paso Webb, Herman El Paso Webel, Kenneth El Paso Wehner, Bill El Paso
Stowell, Alta FEl Paso	Webb, Malcolm El Paso
Stubblefield Jackie Countille	Webel, Herman El Paso
Stull, Charles El Paso	Webner Bill Fl Page
Sturman, William El Paso	Weiller, Harold El Paso
Sullivan, Eugene	West, Mrs. Bertha El Paso
Sullivan, Patrick El Paso Sullivan, Virginia El Paso	West, DorothyEl Paso
Sundquist, Gus. El Paso Sundquist, Thelma El Paso Sweeney, Helen. El Paso	Whedon Paul Washington D C
Sundquist, Thelma El Paso	Whisenhunt, Nellic El Paso
Sweeney, Helen El Paso	Whitaker, Nell
Taggart Palmer Bolon	Webcl, Kenneth El Paso Wehner, Bill E. Paso Weiller, Harold El Paso West, Mrs. Bertha El Paso West, Dorothy El Paso West, Lorothy El Paso West, Kathryn El Paso Whedon, Paul Washington, D. C. C. Whisenhunt, Nellic El Paso Whitaker, Nell El Paso Whitaker, Opal El Paso White, Bertha El Paso White, Betsv El Paso
Sweeney, Ireich E Paso Sweeney, Joe El Paso Taggart, Palmer Rolan Tappan, David El Paso Tappan, Marion El Paso Tatum, Marion El Paso Taylor, Floyd El Paso Taylor, Lamar El Paso	White, Betsy El Paso
Tappan, Marion El Paso	White, Betty NellEl Paso
Tatum, Marion El Paso	White, Jack El Paso
Taylor, Lamar. El Paso	White Mrs Katherine El Paso
Taylor, L. MLa Tuna	White, T. B La Tuna
Teague Keith Fl Paso	
a cagoet a cago	Whitenack, Katherine El Paso
Terrazas, Alfredo El Paso	Whitlock, Robert El Paso Whitlock, Robert El Paso
Terrazas, Alfredo El Paso Terrazas, Nick El Paso Thomas, Geril Thomas	Whitenack, Katherine El Paso Whitlock, Robert El Paso Wilbourn, Donald El Paso Wilbourn, Alice
Terrazas, Alfredo El Paso Terrazas, Nick El Paso Thomas, Cecil Thorp Springs Thomas, Mrs. Inez El Paso	While, Bertha El paso White, Bettsy El Paso White, Betty Nell El Paso White, Jack El Paso White, James El Paso White, Mrs. Katherine El Paso White T. B La Tuna Whitlock, Katherine El Paso Whitlock, Robert El Paso Wilbourn, Donald El Paso Wiley, Howard El Paso
Terrazas, Alfredo El Paso Terrazas, Nick El Paso Thomas, Cecil Thomp Springs Thomas, Mrs. Inez El Paso Thomas, Mrs. Nellie El Paso	Whitenack, Katherine El Paso Whitlock, Robert El Paso Wilbourn, Donald El Paso Wileman, Alice El Paso Wiley, Howard El Paso Wikes, Morgan Wichita Falls
Terrazas, Alfredo El Paso Terrazas, Nick El Paso Thomas, Cecil Thorp Springs Thomas, Mrs. Nellie El Paso Thompson, Gerald El Paso Thompson, Mrs. Helon El Paso	Whitenack, Katherine El Paso Whitlock, Robert El Paso Wilbourn, Donald El Paso Wileman, Alice El Paso Wiley, Howard El Paso Wikes, Morgan Wichia Falls Williams, Athalie Nell El Paso
Terrazas, Alfredo El Paso Terrazas, Nick El Paso Terrazas, Nick El Paso Thomas, Cecil Thorp Springs Thomas, Mrs. Inez El Paso Thomas, Mrs. Nelle El Paso Thompson, Gerald El Paso Thompson, Mrs. Helen El Paso Thompson, Mrs. Malry El Paso	Whitenack, Katherine. El Paso Whitlock, Robert. El Paso Wilbourn, Donald. El Paso Wilcman, Alice. El Paso Wilcy, Floward. El Paso Wilkes, Morgan. Wichita Falls Williams, Athalie Nell El Paso Williams, C. R. Breckenridge Williams, Frances El Paso
Terrazas, Alfredo El Paso Terrazas, Nick El Paso Terrazas, Nick El Paso Thomas, Cecil Thorp Springs Thomas, Mrs. Inez El Paso Thomas, Mrs. Nelle El Paso Thompson, Gerald El Paso Thompson, Mrs. Helen El Paso Thomson, Mrs. Malry El Paso Thorne, Clifford El Paso	Whitenack, Katherine. El Paso Whitlock, Robert. El Paso Wilbourn, Donald. El Paso Wileman, Alice. El Paso Wiley, Floward. El Paso Wilkes, Morgan. Wichita Falls Williams, Athalie Nell. El Paso Williams, C. R. Breckenridge Williams, Lelaroy. El Paso
Terrazas, Alfredo El Paso Terrazas, Nick El Paso Trhomas, Cecil Thorp Springs Thomas, Mrs. Inez El Paso Thomas, Mrs. Nellie El Paso Thompson, Gerald El Paso Thompson, Mrs. Helen El Paso Thomson, Mrs. Malry El Paso Thorne, Clifford El Paso Thorne, Lansing El Paso	Whitenack, Katherine. El Paso Whitlock, Bobert. El Paso Wilbourn, Donald. El Paso Wileman, Alice. El Paso Wiley, Howard. El Paso Wilkes, Morgan. Wichita Falls Williams, Athalie Nell El Paso Williams, C. R. Breckenridge Williams, Frances. El Paso Williams, Lelaroy El Paso Williams, Lelaroy El Paso Williams, Ruth El Paso
Terrazas, Alfredo El Paso Terrazas, Nick El Paso Terrazas, Nick El Paso Thomas, Cecil Thorp Springs Thomas, Mrs. Nellie El Paso Thompson, Mrs. Nellie El Paso Thompson, Gerald El Paso Thompson, Mrs. Helen El Paso Thompson, Mrs. Malry El Paso Thorne, Clifford El Paso Thorne, Lansing El Paso Tiller, Lela El Paso Tiller, Lela El Paso	Whitenack, Katherine El Paso Whitlock, Bobert El Paso Wilbourn, Donald El Paso Wilcan, Alice El Paso Wilcan, Alice El Paso Wilkes, Morgan Wichita Falls Williams, Athalie Nell El Paso Williams, C. R. Breckenridge Williams, Frances El Paso Williams, Lelaroy El Paso Williams, Ruth El Paso Willis, Joe Sam El Paso
Terrazas, Alfredo El Paso Terrazas, Nick El Paso Terrazas, Nick El Paso Thomas, Cecil Thorp Springs Thomas, Mrs. Inez El Paso Thomas, Mrs. Nelle El Paso Thompson, Gerald El Paso Thompson, Mrs. Helen El Paso Thompson, Mrs. Malry El Paso Thorne, Clifford El Paso Thorne, Lansing El Paso Tiller, Lela El Paso Tiller, Lela El Paso Tillman, Harold El Paso Tillman, Juanice El Paso	Whitenack, Katherine. El Paso Whitlock, Robert. El Paso Wilbourn, Donald. El Paso Wilcman, Alice. El Paso Wilcman, Alice. El Paso Wilkes, Morgan. Wichita Falls Williams, Athalie Nell El Paso Williams, C. R. Breckenridge Williams, Frances El Paso Williams, Frances El Paso Williams, Ruth El Paso Willis, Joe Sam El Paso Willis, Ruth El Campo Willis, Ruth El Campo Willis, Ruth El Campo
Taylor, Floyd El Paso Taylor, Lamar El Paso Taylor, Lamar El Paso Taylor, L M La Tuna Teague, Keith El Paso Terrazas, Alfredo El Paso Terrazas, Nick El Paso Thomas, Cecil Thorp Springs Thomas, Mrs. Inez El Paso Thomas, Mrs. Nellie El Paso Thompson, Gerald El Paso Thompson, Gerald El Paso Thompson, Mrs. Malry El Paso Thomson, Mrs. Malry El Paso Thorne, Clifford El Paso Thorne, Lansing El Paso Tiller, Lela El Paso Tiller, Lela El Paso Tillman, Juanice El Paso Tilninn, Lec Russell El Paso Tinnin, Lec Russell El Paso	Whitenack, Katherine. El Paso Whitenack, Robert. El Paso Wilbourn, Donald. El Paso Wilewan, Alice. El Paso Wiley, Howard. El Paso Wilkes, Morgan. Wichita Falls Williams, Athalie Nell. El Paso Williams, C. R. Breckenridge Williams, Frances El Paso Williams, Lelaroy El Paso Williams, Ruth El Paso Williams, Ruth El Paso Willis, Joe Sam El Paso Willis, Ruth El Campo Willis, Ruth El Campo Wilmoth, Wilma Ann El Paso Wilson, Dorothy El Paso
Tinnin, Lee Russell	Whitenack, Katherine. El Paso Whitenack, Robert. El Paso Wilbourn, Donald. El Paso Wilewan, Alice. El Paso Wiley, Floward. El Paso Wilkes, Morgan. Wichita Falls Williams, Athalie Nell. El Paso Williams, C. R. Breckenridge Williams, Frances El Paso Williams, Lelproy. El Paso Williams, Ruth. El Paso Willis, Joe Sam. El Paso Willis, Ruth. El Campo Willson, Dorothy El Paso Wilson, Dorothy El Paso Wilson, Gordon. Ft. Towson, Okla.
Tinnin, Lec Russell El Paso	Whitenack, Katherine. El Paso Whitlock, Robert. El Paso Wilbourn, Donald. El Paso Wilbourn, Donald. El Paso Wilcman, Alice. El Paso Wiley, Floward. El Paso Wilkes, Morgan. Wichita Falls Williams, Athalie Nell El Paso Williams, C R. Breckenridge Williams, Frances. El Paso Williams, Frances. El Paso Williams, Ruth El Paso Willis, Joe Sam El Paso Willis, Ruth El Campo Willis, Ruth El Campo Willison, Dorothy El Paso Wilson, Gordon. Ft. Towson, Okla. Wilson, Jane Louise El Paso
Tinnin, Lee Russell	Whitenack, Katherine. El Paso Whitenack, Robert. El Paso Wilbourn, Donald. El Paso Wilcman, Alice. El Paso Wilcman, Alice. El Paso Wilkes, Morgan. Wichita Falls Williams, Athalie Nell El Paso Williams, Athalie Nell El Paso Williams, C. R. Breckenridge Williams, Frances El Paso Williams, Lelaroy El Paso Williams, Ruth El Paso Willis, Joe Sam El Campo Willis, Ruth El Campo Willis, Ruth El Campo Wilmoth, Wilma Ann El Paso Wilson, Dorothy El Paso Wilson, Gordon Ft Towson, Okla. Wilson, Jane Louise El Paso Wilson, J. J La Tuna Wilson, Margaret Ann
Tinnin, Lee Russell	Whitenack, Katherine. El Paso Whitenack, Robert. El Paso Wilbourn, Donald. El Paso Wilcman, Alice. El Paso Wiley, Floward. El Paso Wilkes, Morgan. Wichita Falls Williams, Athalie Nell. El Paso Williams, Athalie Nell. El Paso Williams, Frances El Paso Williams, Frances El Paso Williams, Ruth El Paso Williams, Ruth El Paso Willis, Joe Sam. El Paso Willis, Ruth. El Campo Willis, Ruth. El Campo Willis, Ruth. El Paso Wilson, Dorothy El Paso Wilson, Jorothy Ft. Towson, Okla. Witson, Jane Louise El Paso Wilson, J. La Tuna Wilson, Margaret Ann. Howe Wilson, Mary El Paso
Tinnin, Lee Russell	Whitenack, Katherine. El Paso Whitenack, Robert. El Paso Wilbourn, Donald. El Paso Wilbourn, Alice. El Paso Wiley, Floward. El Paso Wilkes, Morgan. Wichita Falls Williams, Athalie Nell. El Paso Williams, Athalie Nell. El Paso Williams, Frances El Paso Williams, Lelarroy. El Paso Williams, Lelarroy. El Paso Williams, Ruth El Paso Willis, Joe Sam. El Paso Willis, Ruth El Campo Willis, Ruth El Campo Willis, Ruth El Campo Willis, Ruth El Paso Wilson, Dorothy. El Paso Wilson, Gordon. Ft. Towson, Okla. Wilson, Jane Louise El Paso Wilson, Mary El Paso Wilson, Margaret Ann Howe Wilson, Mary Wilson, Mary Wimberly, Charles. Hale Center
Tinnin, Lee Russell	Whitenack, Katherine. El Paso Whitenack, Robert. El Paso Wilbourn, Donald. El Paso Wilcman, Alice. El Paso Wiley, Floward. El Paso Wiley, Floward. El Paso Wilkes, Morgan. Wichita Falls Williams, Athalie Nell El Paso Williams, Frances. El Paso Williams, Frances. El Paso Williams, Ruth. El Paso Williams, Ruth. El Paso Willis, Joe Sam. El Paso Willis, Joe Sam. El Paso Willis, Ruth. El Campo Willison, Orothy. El Paso Wilson, Dorothy. El Paso Wilson, Jane Louise. El Paso Wilson, Jane Louise. El Paso Wilson, Margaret Ann. Howe Wilson, Margaret Ann. Howe Wilson, Margaret Anne. El Paso Wilson, Margaret Anne. El Paso Wilson, Margaret Anne. El Paso
Tinnin, Lec Russell El Paso	Whitenack, Katherine. El Paso Whitenack, Robert. El Paso Wilbourn, Donald. El Paso Wilcman, Alice. El Paso Wiley, Floward. El Paso Wilkes, Morgan. Wichita Falls Williams, Athalie Nell El Paso Williams, Athalie Nell El Paso Williams, C. R. Breckenridge Williams, Frances El Paso Williams, Elenroy El Paso Williams, Ruth El Paso Williams, Buth El Campo Willis, Joe Sam El Campo Willis, Joe Sam El Campo Willis, Ruth El Campo Wilson, Dorothy El Paso Wilson, Dorothy El Paso Wilson, Gordon Ft Towson, Okla. Wilson, Jane Louise El Paso Wilson, Jane Louise El Paso Wilson, Margaret Ann Howe Wilson, Margaret Ann Howe Wilson, Mary El Paso Winberly, Charles Hale Center Windberg, Anne El Paso Wiser, Ortella El Paso Wilser, Ortella El Paso
Tinnin, Lec Russell El Paso Tomlinson, Shields El Paso Toone, Herbert Acala Tracht, Jocelyn El Paso Travis, Brooks El Paso Traweek, C. La Tuna Treadwell, James Hale Center Trevino, Salvador. Chih. City, Chih. Mex. Triplett, O A El Paso Trucblood, Margaret El Paso Trus, Freeman El Paso	Whitenack, Katherine. El Paso Whitenack, Robert. El Paso Wilbourn, Donald. El Paso Wilbourn, Donald. El Paso Wileman, Alice. El Paso Wiley, Floward. El Paso Wilkes, Morgan. Wichita Falls Williams, Athalie Nell. El Paso Williams, Athalie Nell. El Paso Williams, Frances El Paso Williams, Frances El Paso Williams, Ruth El Paso Williams, Ruth El Paso Williams, Ruth El Campo Willis, Ruth El Campo Willis, Ruth El Campo Willis, Ruth El Paso Wilson, Dorothy El Paso Wilson, Gordon. Ft. Towson, Okla. Wilson, Jane Louise El Paso Wilson, Jane Louise El Paso Wilson, Mary El Paso Wilson, Mary El Paso Wilson, Mary El Paso Winderg, Anne El Paso Wiser, Ortella El Paso Wiser, Ortella El Paso Wichers, H B Carrizo Springs
Tinnin, Lec Russell El Paso Tomlinson, Shields El Paso Toone, Herbert Acala Tracht, Jocelyn El Paso Travis, Brooks El Paso Travis, Brooks El Paso Traweek, C. La Tuna Treadwell, James Hale Center Trevino, Salvador Chih. City, Chih., Mex. Triplett, O A El Paso Trucblood, Margaret El Paso Twiss, Freeman El Paso Twiss, Freeman El Paso	Wilkes, Morgan Wilkes, Morgan Williams, Athalie Nell Williams, C. R. Breckenridge Williams, Frances C. Paso Williams, Lelarroy E. Paso Williams, Lelarroy E. Paso Williams, Ruth E. Paso Williams, Ruth E. Paso Willis, Joe Sam E. Paso Willis, Ruth E. Campo Willis, Ruth E. Paso Willis, Ruth E. Paso Wilson, Dorothy E. Paso Wilson, Dorothy F. Towson, Okla. Wilson, Gordon Ft. Towson, Okla. Wilson, J. J La Tuna Wilson, J. J La Tuna Wilson, Mary E. Paso Wilson, Mary E. Paso Wilson, Mary E. Paso Wimberly, Charles Hale Center Windberg, Anne E. Paso Wiser, Ortella E. Paso Wiser, Ortella E. Paso Wiser, B. Carrizo Springs Womack, Lenora E. Paso
Tinnin, Lec Russell El Paso Tomlinson, Shields El Paso Toone, Herbert Acala Tracht, Jocelyn El Paso Travis, Brooks El Paso Travis, Brooks El Paso Traweek, C. La Tuna Treadwell, James Hale Center Trevino, Salvador Chih. City, Chih., Mex. Triplett, O A El Paso Trucblood, Margaret El Paso Twiss, Freeman El Paso Twiss, Freeman El Paso	Wilkes, Morgan Wilkes, Morgan Williams, Athalie Nell Williams, C. R. Breckenridge Williams, Frances Williams, Elenroy Williams, Lelarroy Williams, Lelarroy Williams, Buth El Paso Williams, Ruth El Paso Willis, Joe Sam El Paso Willis, Ruth El Campo Willis, Ruth El Campo Willis, Ruth El Paso Wilson, Dorothy El Paso Wilson, Dorothy El Paso Wilson, Gordon Ft. Towson, Okla. Wilson, J La Tuna Wilson, J Wilson, Morgaret Ann Wilson, Morgaret Ann Wilson, Mary El Paso Wilson, Mary El Paso Winderly, Charles Hale Center Windberg, Anne El Paso Wiser, Ortella El Paso Wiser, Ortella El Paso Withers, R B Carrizo Springs Womack, Lenora El Paso
Tinnin, Lec Russell El Paso Tomlinson, Shields El Paso Toone, Herbert Acala Tracht, Jocelyn El Paso Travis, Brooks El Paso Travis, Brooks El Paso Traweek, C. La Tuna Treadwell, James Hale Center Trevino, Salvador Chih. City, Chih., Mex. Triplett, O A El Paso Trucblood, Margaret El Paso Twiss, Freeman El Paso Twiss, Freeman El Paso	Wilkes, Morgan Wilkes, Morgan Williams, Athalie Nell Williams, C. R. Breckenridge Williams, Frances Williams, Elenroy Williams, Lelarroy Williams, Lelarroy Williams, Buth El Paso Williams, Ruth El Paso Willis, Joe Sam El Paso Willis, Ruth El Campo Willis, Ruth El Campo Willis, Ruth El Paso Wilson, Dorothy El Paso Wilson, Dorothy El Paso Wilson, Gordon Ft. Towson, Okla. Wilson, J La Tuna Wilson, J Wilson, Morgaret Ann Wilson, Morgaret Ann Wilson, Mary El Paso Wilson, Mary El Paso Winderly, Charles Hale Center Windberg, Anne El Paso Wiser, Ortella El Paso Wiser, Ortella El Paso Withers, R B Carrizo Springs Womack, Lenora El Paso
Tinnin, Lec Russell El Paso Tomlinson, Shields El Paso Tomlinson, Shields El Paso Tone, Herbert Acala Tracht, Jocelyn El Paso Travis, Brooks El Paso Traweek, La Tuna Treadwell, James Hale Center Trevino, Salvador Chih. City, Chih. Mex. Triplett, O A El Paso Trucblood, Margaret El Paso Trucblood, Margaret El Paso Valdes, Evaristo El Paso Valdes, Evaristo El Paso Valcenia, Samuel El Paso Vance, Mary Frances El Paso Vancen Mary Frances El Paso Van Doven Donald	Wilkes, Morgan Wilkes, Morgan Williams, Athalie Nell Williams, C. R. Breckenridge Williams, Frances Williams, Elenroy Williams, Lelarroy Williams, Lelarroy Williams, Buth El Paso Williams, Ruth El Paso Willis, Joe Sam El Paso Willis, Ruth El Campo Willis, Ruth El Campo Willis, Ruth El Paso Wilson, Dorothy El Paso Wilson, Dorothy El Paso Wilson, Gordon Ft. Towson, Okla. Wilson, J La Tuna Wilson, J Wilson, Morgaret Ann Wilson, Morgaret Ann Wilson, Mary El Paso Wilson, Mary El Paso Winderly, Charles Hale Center Windberg, Anne El Paso Wiser, Ortella El Paso Wiser, Ortella El Paso Withers, R B Carrizo Springs Womack, Lenora El Paso
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Young, Forrest, El Paso	Zlabovsky, Esther El Paso
Young, Jack El Paso	Ziabovsky, Julia
Ziler. Don El Paso	Zozaya, Jose
Zimmer, Harry El Paso	Zuniga, Antonio

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SUMMER SESSION, 1938

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Abdon Mary Lee El Paso	Byrd, Clara Mary El Paso
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Adams, Mrs. Agnes	Camp, Fannie
	Camp, Jennie El Paso
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Bugge, Mrs. Louise	Chalman Hanni D Diverdala N V
Baldwin, Eloine El Paso	Changes Floirs Change Cl. Dose
Balenti, Richard Altus, Okla.	Chaparro, Elvira
Bales, Mrs. Londaline El Paso	Chavez, OscarEl Paso
Banks, Mary EliaEl Paso	Chew, Antonio
Bardsley, Bernard	Clifton, Mrs. Minnie El Paso
Rordwell Mrs Esther Anthony N. M.	Clifton, Mrs. Minnie. El Paso Cobos, Victor El Paso
TO 1 Provides C1 Dage	Cole, Lillian El Paso
Berr Allen El Paso	Conner, Millard El Paso
Barrett Fred Tulsa Okla	Connor, Leonard
Barrowe, Entry Barr, Allen. El Paso Barrett, Fred. Tulsa, Okla. Barrett, Gwynne. El Paso Barrott, Margaret. El Paso Barrueta, Allonso. El Paso Barton, Margaret. El Paso	Counedge Fina Fi Paso
Dorron Margaret El Pago	Coppedge, Elna
Derroit, Margaret,, El Dano	Cordova Cabriel El Pasa
Darrueta, Allonso	Cordova, Gabriel El Paso Cordova, Mrs. Helen El Paso
	Caulaban Las
Beahler, Lee El Paso	Coulehan, Lee El Paso
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Bell, Nelda	Cox, Esther El Paso
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Berliner, Edwin El Paso	Craptree. Marion
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	Crawlord, Charlotte.,
Bess Virginia El Paso	Crawford, Charlotte
Bess Virginia El Paso Riediger Mrs Marie El Paso	Crimen, Johnell
Bess, Virginia	Crimen, Johnell El Paso Cross, Virginia La Tuna
Bess, Virginia	Crimen, Johnell El Paso Cross, Virginia La Tuna
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Gobike Myrtle El Paso	Light, Ellen El Paso
Gomez Filiberto El Paso	Lindlof, Edward
Gonzales Graciela El Paso	Tiple Foliage Fl Posn
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Fuller. Seale E. Paso Gaither, Doyle E. Paso Gaither, Doyle E. Paso Galther, Doyle E. Paso Galther, Doyle E. Paso Gantt, Mrs. Mildred E. Paso Garcia, Jose E. Paso Garcia, Jose Chihuahua City, Mex. Garcia, Jose E. Paso Geer, Mrs. Adella E. Paso Geer, Mrs. Adella Crystal, Idaho Gibson, Harland Crystal, Idaho Gibson, Robert E. Paso Given, Mildred E. Paso Given, Mildred E. Paso Glasgow, Octavia E. Paso Glasgow, Octavia E. Paso Glasgow, Octavia E. Paso Gloff, Mrs. Etta C E. Paso Gohlke, Myrtle E. Paso Gonez, Filberto E. Paso Goodbrake, Alice E. Paso Goodbrake, Alice E. Paso	Lizarraga, Servando El Paso Loewenstein, Robert Ysleta
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Grambing, John El Paso Grambing, John El Paso Graves, Mrs. Eva El Paso Gray, Thomasine El Paso Gregg, Lucie Lee El Paso Griffin, G. A El Paso Guthrie, Julia Ann El Paso Haas, Werner Mex. Hackett, Mrs. Barbara El Paso Hall, Robert El Paso Haninger, Harriett El Paso	McCutchau, Roy

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Miller, William E. El Paso Miskimins, Harry El Paso Mitcham, Robert El Paso Mitchell, Mary Ann El Paso Mitchell, Theodosia El Paso Money, Patricia El Paso Mooney, Patricia Ann Ysleta Moore, Ross El Paso More, Mrs. Hazel El Paso Morfill, Mrs. Elixabeth El Paso Morton, Amelia El Paso	Schwartz, Albert J
Miskimins Harry El Paso	Schwartz, Jean El Paso Scotten, Mrs. Wilma El Paso Shaw, Burrell Lee El Paso
Mitcham, Robert El Paso	Scotten, Mrs. Wilma El Paso
Mitchell Theodoxia Fl Pago	Shiveley Russell Dellan
Mooney, Patricia El Paso	Skinner, Maurine. El Paso
Mooney, Patricia AnnYsleta	Shaw, Burrell Lee
Moore, RossEl Paso	Soucek, MaeEl Paso
Morel Mrs Flivsbath El Paso	Sparks, GlynnEl Paso
Morfill, Mrs. Elixabeth E. Paso Morton, Amelia E. Paso Morton, Amelia E. Paso Mosley, Harold E. Paso Moye, Edwin El Paso Muceler, Albert, Jr El Paso Mulcaby, Catherine E. Paso Mulcaby, Kate E. Paso Mulcaby, Kate E. Paso Murphey, Robert El Paso Murphey, Robert El Paso Nalley, Hardy Dallas Narrance, Mrs. Dorothy El Paso Naylor, James El Paso Nelson, Lloyd A., Jr El Paso Nelson, Lloyd A., Jr El Paso Nelson, Lloyd A., Jr El Paso Newman, Tom El Paso Niland, Mrs. Ada El Paso O'Keeffe, Mrs. Margaret El Paso O'Keeffe, Mrs. Margaret El Paso O'Neal, Peggy El Paso Orndorff, Mrs. Mary El Paso Page, Mrs. Gwendolyn El Paso Page, Sallie El Paso	Stacy Mary Gray El Pago
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Muciler, Albert, Jr El Paso	Stein, Pauline
Mulcaby Kole El Dago	Stiles Rev. El Des-
Murphey, Robert El Paso	Stirman Marion El Poso
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Narrance, Mrs. DorothyEl Paso	Stowell, Mrs. AltaEl Paso
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Newman Tom Fl Pago	
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Old, Mrs. Margaret El Paso	Tappan, David El Paso
Orneal, Peggy El Paso	Teague, Mrs. Alisa
Page Mrs. Gwendolyn El Paso	Terrazas Alfredo El Dago
Page, Sallie El Paso	Thomas, Mrs. Inex El Paso
Paredes, PeterEl Paso	Thompson, Mrs. Grace El Paso
Paules Donald San Diago Colif	Thompson, Mrs. HelenEl Paso
Pearson Virginia FI Pago	Thorne Clifford El Paso
Peden, Jack El Paso	Thorne, Lansing El Paso
Pennington, Barry Georgetown	Tiller, Mrs. Lela El Paso
Perazzo, Mrs. Buray El Paso	Tomlinson, Elizabeth El Paso
Peterson Dorothea Fl Paso	Toone Herbort Et Hancock
Pitts, Howard El Paso	Valdez, Mrs. Nell El Paso
Porter, David	Vance, Richard El Paso
Page, Mrs. Gwendolyn El Paso Page, Sallie El Paso Page, Sallie El Paso Pardes, Peter El Paso Pauleson, Luvenia El Paso Paylon, Donald San Diego, Calif Pearson, Virginia El Paso Peden, Jack El Paso Pennington, Barry Georgetown Perazzo, Mrs. Buray El Paso Perez, Charles El Paso Peterson, Dorothea El Paso Peterson, Dorothea El Paso Potter, David Coleman Poske, Alma El Paso Poske, Jame El Paso Preston, Eleanor El Paso Price, Mrs. Hazel El Paso Price, Owen Chicago, Ill. Prieto, Phillip El Paso Quick Miriam El Paso	Sullivan, Virginia. El Paso Sundquist, Thelma El Paso Sundquist, Thelma El Paso Tappan, David El Paso Tappan, David El Paso Teague, Keith El Paso Terrazas, Alfredo El Paso Terrazas, Alfredo El Paso Thomas, Mrs. Inez El Paso Thompson, Mrs. Grace El Paso Thompson, Mrs. Helen El Paso Thompson, Betty El Paso Thorne, Clifford El Paso Thorne, Clifford El Paso Thorne, Clifford El Paso Thorne, Lansing El Paso Tiller, Mrs. Lela El Paso Tompkins, Mrs. Ruby El Paso Tompkins, Mrs. Ruby El Paso Tompkins, Mrs. Ruby El Paso Tompkins, Mrs. Nell El Paso Vance, Richard El Paso Vazquez, Alfredo El Paso Vazquez, Alfredo El Paso Vazquez, Alfredo El Paso Vazquez, Alfredo El Paso
Preston Eleanor FI Page	Villalohos Mrs Corman El Paso
Price, Mrs. Hazel El Paso	Vazquez, Amalia El Paso Vazquez, Amalia El Paso Villalobos, Mrs. Carmen El Paso Voetzel, Walter El Paso Waide, Mrs. Roxye El Paso Walker, Mrs. R. W El Paso Warne, David El Paso
Price, Owen	Waide, Mrs. Roxye
Prieto, Phillip El Paso Quick, Miriam El Paso	Walker, Mrs. R. W El Paso
Rainey Helen El Dogo	Warren Hosen
Ramke, Elsie El Paso	Watson, Mrs. Mary Fl Page
Rainey, Helen El Paso Ramke, Elsie El Paso Ranney, Morris Temple Rathbun, LaVonne El Paso Reading, Robert El Paso	Warren, Hosea Hico Watson, Mrs. Mary El Paso Watters, Kathryn El Paso Weaver, Mrs. Morgaret El Paso Webel, Herman El Paso Wobel Kornett
Rathbun, LaVonne, El Paso	Weaver, Mrs. Morgaret El Paso
Reed lovee El Paso	Webel, Herman El Paso Webel, Kenneth
Reed, Joyce El Paso Reed, Sam El Paso Resch, Mrs. Marion El Paso Reschy, Mrs. Louise El Paso Reschy, Mrs. Louise El Paso	Webel, Renneth El Paso Webner, Bill El Paso West, Dorothy El Paso Whitaker, Mrs. Opal El Paso White, Betsy El Paso White, Betty El Paso Whitington, Jess El Paso Wiggs, John El Paso Wileman Alice El Paso
Resch, Mrs. Marion El Paso	West, Dorothy El Paso
Resley, Mrs. Louise El Paso	Whitaker, Mrs. Opal El Paso
Reynaud, Henrietta El Paso Rheinheimer, Emilie El Paso	White, Betsy
Rice Virginia El Paso	Whittington Jess El Dano
Rice, Virginia El Paso Richards, Mrs. Lorena El Paso Rigdon, Mrs. Dorothy El Paso Rindom, Virgil El Paso Rindom, Virgil El Paso Rinehart, Tilfany El Paso	Wiggs, John El Paso
Rigdon, Mrs. DorothyEl Paso	
Rindom, Virgil El Paso	Williams, Arthur El Paso
Ritter Robert Fl Page	Williams, Nuth
Robinson, Mrs. Patricia El Paso	Williamson, Elmer El Paso
Robinson, Mary Jo El Paso	Willis, Joe Sam
Robinson, Millon El Paso	Wilson, Mrs. Dorothy Fabens
Hinchart, Tilfany El Paso Ritter, Robert El Paso Robinson, Mrs. Patricia El Paso Robinson, Mary Jo El Paso Robinson, Milton El Paso Rodin, Harry Fl Paso Rodgers, Pollard El Paso Rogge, Margaret El Paso Roper, Maxine El Paso Rodniguez-Flores, Joel El Paso Romo, Estela El Paso	Withams, Arthur El Paso Williams, Buth El Paso Williams, William A El Paso Williamson, Elmer El Paso Williamson, Elmer El Paso Wilson, Mrs. Dorothy Fabens Wilson, Mrs. Dorothy El Paso Wilson, Mrs. Olga El Paso Wison, Ortella El Paso Wiser, Ortella El Paso Woodard, Mildred El Paso Worman, Rebecca El Paso
Rogde, Margaret El Paso	Wiser, Ortella F1 Daga
Roper, Maxine El Paso	Woodard, Mildred El Paso
Hodriguez-Flores, Joel El Paso	Worman, Rebecca El Paso
Roslyn Mrs Margaret El Paso	Worthington, Mrs. Elizabeth El Paso
Rush, Mrs. Lucy FI Paso	Young Mrs Fimore Constitution
Romo, Estela El Paso Roslyn, Mrs. Margaret El Paso Rush, Mrs. Lucy El Paso Saffold, Bill El Paso Saffold, Bill El Paso	Young, Mrs. Mike El Paso
Salcedo, Gilbert. El Paso Salyer, Mrs. Rose El Paso Sanders, Mrs. Charm El Paso	Wordard, Midred El Paso Worthington, Mrs. Elizabeth El Paso Worthington, Mrs. Elizabeth El Paso York, Mrs. Patricia El Paso Young, Mrs. Elmore Canutillo Young, Mrs. Mike El Paso Zlabovsky, Esther El Paso Zozaya, Jose B El Paso
Sanders Mrs Charm El Paso	Lozaya, Jose BEl Paso
Paso	

STATISTICAL SUMMARIES

	ST	UDENTS				
	Long Session, 1936-37			Long Session, 1937-38		
	Men	Women	Total	Мер	Womea	Total
ENGINEERING: Postgraduates Senjors Juniors Sophomores Freshmen Non-credits Total	0 13 15 46 134 0	0 0 0 0 0 0 0	0 13 15 46 134 0	1 13 23 47 166 0	0 0 0 0 0 0	1 13 23 47 166 0
ACADEMIC: Postgraduates Seniors Juniors Sophomores Freshmen Non-credits	6 20 30 46 141 20	23 47 63 75 137 9	29 67 93 121 278 29	10 20 36 70 144 51	28 45 66 64 152 16	38 65 102 134 296 67
Total	263	354	617	331	371	702
Total Individual Students	471	354	825	581	371	952

SUMMER SESSIONS

	Men	Women	Total	Мев	Women	Total
Students registered in the first term	132 115	184	316 263	171	207 165	378
Total	247	332	579	305	372	677
Total Individual Students in the Summer Session	164	243	407	199	254	453

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