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(A Branch of The University of Texas)

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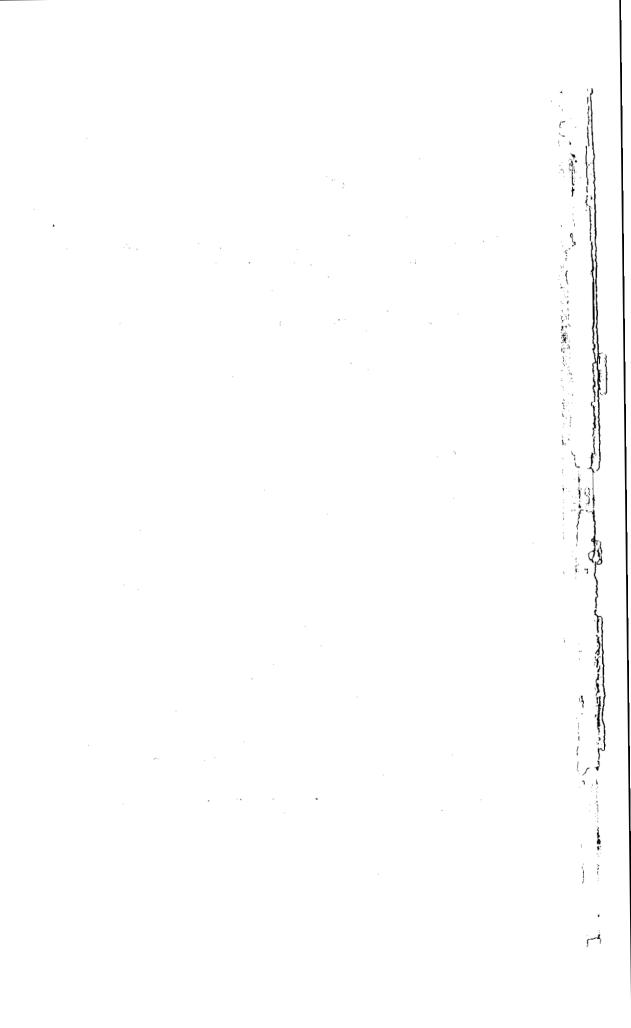
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With Announcements for 1941-1942



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A Member of the Southern Association of Colleges

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College of Mines and Metallurgy (A Branch of The University of Texas)

MEMBER

of

Texas Association of Colleges Southern Association of Colleges

El Paso, Texas

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

Sam Houston

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

Mirabeau B. Lamar

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BOARD OF REGENTS

OFFICERS

J. R. PARTEN, Chairman
LESLIE WAGGENER, Vice-Chairman
LEO C. HAYNES, Secretary

MEMBERS

Terms Expire January, 1941

J. R. PARTEN	Houston
Terms Expire January, 1943	
E. J. Blackert	Victoria
Leslie Waggener	
H. H. Weinert	
Terms Expire January, 1945	
K. H. Aynesworth	Waco
Mrs. I. D. Fairchild	Lufkin
H. J. LUTCHER STARK	

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: Branson, Stark, Parten.
Finance: Waggener, Blackert, Weinert.

LAND: Morgan, Weinert, Parten.
LECISLATIVE: Parten, Blackert, Weinert.
LIBRARY: Aynesworth, Stark, Waggener.
MEDICAL: Branson, Aynesworth, Parten.

Public Relations: Blackert, Aynesworth, Morgan.

BOARD FOR LEASE OF University Lands: Aynesworth, Mrs. Fairchild.

CALENDAR

of the

COLLEGE OF MINES AND METALLURGY

1941

June 16, Monday. Section 1 of Summer Surveying begins.

JULY 14, MONDAY. Section 2 of Summer Surveying begins.

SEPTEMBER 4. THURSDAY. Examinations for admission.

Condition, advanced standing, and postponed SEPTEMBER 6, SATURDAY. examinations. Petitions must be in the office of the Registrar not later than September 2.

Compulsory freshman examinations at 9 A.M. and SEPTEMBER 8, MONDAY. 1 P.M. in Holliday Hall.

SEPTEMBER 9, TUESDAY. Freshman convocation at 9 A.M.

SEPTEMBER 9, TUESDAY. Faculty registration conference at 2 P.M.

SEPTEMBER 10-11, WEDNESDAY-THURSDAY. Registration.

SEPTEMBER 12, FRIDAY. Classes begin.

SEPTEMBER 18, THURSDAY. Deferred examinations.

SEPTEMBER 20, SATURDAY. Last day students may add or substitute courses. SEPTEMBER 20, SATURDAY. Last day of registration for the first semester.

NOVEMBER 11, TUESDAY. Armistice Day, holiday.

NOVEMBER 20-22, THURSDAY-SATURDAY. Thanksgiving recess.

DECEMBER 20. SATURDAY. Christmas recess begins at the close of the last class which meets on Saturday.

1942

JANUARY 5, MONDAY. Classes are resumed.

JANUARY 19-24, MONDAY-SATURDAY. Examinations for the first semester.

JANUARY 21, WEDNESDAY. Examinations for admission.

JANUARY 22, THURSDAY. Freshman convocation at 9 a.m.

JANUARY 23-26, FRIDAY-MONDAY. Registration of new students.

JANUARY 30-31, FRIDAY-SATURDAY. Registration of readmission students.

JANUARY 31, SATURDAY. Condition, postponed, and advanced standing examinations (not for Engineering students).

FEBRUARY 2, MONDAY. Classes begin.

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

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

MARCH 28, SATURDAY. Condition examinations for Engineering students.

APRIL 3-7, FRIDAY-TUESDAY. Easter holidays.

May 2, Saturday. Major examinations.

MAY 22-28, FRIDAY-THURSDAY. Examinations for the second semester.

MAY 30, SATURDAY. Alumni and class day.

MAY 31, SUNDAY. Baccalaureate Services.

June 1, Monday. Commencement.

COLLEGE OF MINES AND METALLURGY

ADMINISTRATIVE OFFICERS

Dossie Marion Wicgins, Ph.D., President. B.A., Simmons, 1919; M.A., Yale, 1925; Ph.D., 1930.

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

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

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

FRANK JUNELL, M.A., Registrar; Director of Publicity. B.A., Hardin-Simmons, 1934; M.A., Missouri, 1937.

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

BAXTER POLK, B.S., Librarian.

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

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

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

B.S., Texas, 1930.

MRS. LOUISE F. RESLEY, B.A., Social Director of Dormitory for Women.

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

FORREST JACK ACEE, M.A., Director of Student Life.

FACULTY

Professors

FREDERICK WILLIAM BACHMANN, Professor of Modern Languages. B.A., Stanford, 1922; M.A., 1924; Ph.D., Chicago, 1931.

Anton Helmer Berkman, Professor of Biological Sciences. B.A., Texas, 1924; M.A., 1926; 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.

WALTER S. KNOX, Professor of Physical Education.¹
B.A., Iowa, 1927; M.A., Texas Christian University, 1934; Ph.D., Iowa, 1938.
WILLIAM WALTER LAKE, Professor of Chemistry.²
B.S., Ohio State, 1913; M.S., 1921.

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.

¹Appointment effective September 15, 1940.

²Appointment as Professor of Chemistry effective September 15, 1940.

CHARLES LELAND SONNICHSEN, Professor of English. B.A., Minnesots, 1924; M.A., Harvard, 1927; Ph.D., 1931.

JOHN LEROY WALLER, Professor of History. B.S., Oklahoma, 1923; M.A., Colorado, 1925; Ph.D., Texas, 1929.

ASSOCIATE PROFESSORS

FORREST JACK AGEE, Associate Professor of Education. B.A., Howard Payne, 1928; M.Ed., Texas, 1937.

PEARL WHITFIELD DURKEE, Associate Professor of Physics.

B.A., Acadia University, 1903; B.S. (Electrical Engineering), McGill University, 1906;

M.S., Cornell, 1935.

LLOYD ALVINO NELSON, Associate Professor of Ceology. E.M., Texas College of Mines, 1916; M.S. (Geology), Colorado, 1929; Pb.D., 1937.

MACK SAXON, Associate Professor of Physical Training.

EUGENE McRAE THOMAS, Associate Professor of Mining and Metallurgy.

B.S. (Mining Engineering), Texas College of Mines, 1926; M.S., Massachusetts Institute of Technology, 1939; E.M., Texas College of Mines, 1940.

MRS. ISABELLA CORBETT ZIMMERMAN, Associate Professor of English.
B.A., Occidental, 1925; M.A., 1926; Ph.D., University of Southern California, 1934.

ASSISTANT PROFESSORS

WILLIAM ROBERT AVRETT, Assistant Professor of Modern Languages, B.A., Texas, 1927; M.A., 1928.

FLOYD ARCHIE DECKER, Assistant Professor of Engineering, B.S. (Electrical Engineering), Kaosas State College, 1927; E.E., 1932.

NORMA Ecc. Assistant Professor of English, Dean of Women. B.A., Tess. 1913; M.A., 1928.

MRS. LENA ELDRIDGE, Assistant Professor of Modern Languages. B.A., New Mexico Normal University, 1919; M.A., Washington, 1927.

GLADYS GREGORY, Assistant Professor of Government. B.A., Southwestern, 1915; M.A., Texas, 1926; Ph.D., 1937.

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

GLEN R. JOHNSON, Assistant Professor of Music; Director of Band and Glee Clubs.

B.A., Baylor University, 1936.

A. D. BEACH LANGSTON, Assistant Professor of English.³
B.A., The Citadel, 1933; M.A., Claremont, 1935; Ph.D., North Carolina, 1940.

DOROTHY McCuskey, Assistant Professor of Education.³
B.A., College of Wooster, 1929; M.A., Radeliffe, 1930; Ph.D., Yale, 1936.

LEON DENNY MOSES, Assistant Professor of English. B.A., Columbia, 1923; M.A., 1924.

RICHARD HUBBELL OLMSTED, Assistant Professor of Modern Languages.
B.A., Mindesota, 1922; M.A., 1932; Ph.D., 1934.

EUGENE O. PORTER, Assistant Professor of History.³
B.A., Ohio Wesleyan, 1920; M.A., Ohio State, 1936; Ph.D., 1939.

MRS. MARY KELLY QUINN, Assistant Professor of Sociology. 4
B.A., Wellesley, 1922; M.A., Boston University, 1930.

NATHAN SCHWID, Assistant Professor of Engineering and Mathematics. B.A., Wisconsin, 1930; M.A., 1932; Ph.D., 1934.

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

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

^{*}Appointment effective September 15, 1940.

⁴Absent on leave, 1940-1941.

REX WALLACE STRICKLAND, Assistant Professor of History.

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

VERA WISE, Assistant Professor of Design and Interior Decorating.

B.A., Williamette University, 1920; Chicago Academy of Fine Arts; Kansas City Art Institute.

INSTRUCTORS

JOHN LEO ABERNETHY, Instructor in Chemistry.³
B.A., University of California et Los Angeles, 1936; M.S., Northwestern, 1938; Ph.D., 1940.

WILLIAM HENRY BALL, Instructor in Chemistry. B.S., Chicago. 1922; M.S., Iowa State College, 1925.

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MRS. MYRTLE EVELYN BALL, Instructor in Public Speaking. B.A., New Mexico Normal University, 1926.

THOMAS GROCARD BARNES, Instructor in Mathematics. B.A., Hardin-Simmons, 1933; M.S., Brown, 1936.

CHARLES EDWARD BOUNDS, Instructor in Journalism. B.A., Missouri, 1939; B.J., 1939.

LEON CAMP, Instructor in Mathematics.5 B.A., North Texas State Teachers College, 1927; M.A., Columbia, 1928; Ph.D., Texas, 1940.

MRS. ISABELLE KELLY FINEAU, Instructor in Modern Languages. B.A., Tesas, 1905; M.A., 1931.

HERBERT WALTER HARGRAVES, Instructor in Economics.³ B.A., Nevada, 1935; M.A., Clark, 1936.

MAURINE HOWELL, Instructor in Public Speaking.5 B.A., Texas College of Mines, 1938.

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

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

VIRGINIA DEAN KING, Instructor (Part-time) in English.
B.A., Wellesley, 1936; M.A., University of California at Los Augeles, 1937.

JOSEPH S. LEECH, Instructor in Mathematics and Engineering.6 B.A., Oklahoma, 1927; M.A., 1928.

BULAH A. LILES, Instructor in Mathematics. B.A., Texas, 1921; M.A., Chicago, 1927.

James A. Moore, Instructor in Sociology.⁵ B.A., Texas, 1929; M.A., 1931.

MRS, ELIZABETH Y. NEALON, Instructor (Part-time) in English. B.A., Converse College, 1901.

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

PEARL OLIVE PONSFORD, Instructor in English.
B.A., Wellcsley, 1919; M.A., University of Southern California, 1930.

MRS. LOUISE F. RESLEY, Instructor in Mathematics. B.A., Texas College of Mines, 1939.

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

JACKIE ROE, Instructor in Music.

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

GEORGE PERRY STEEN, Instructor in Engineering.
B.S. (Civil Engineering), Missouri School of Mines, 1933; M.S., 1938.

Appointed for Long Session 1940-1941 only.

⁶Absent on leave, 1940-1941.

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WILLIAM S. STRAIN, Instructor in Geology.

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

JUDSON F. WILLIAMS, Instructor in Journalism. 7 B.A., Hardin-Simmons, 1934; M.A., Missouri, 1940.

ASSISTANTS

MRS. MARY ELEANOR DUKE, Laboratory Assistant in the Department of Biological Sciences. B.A., Texas College of Mines, 1939.

HAYNES FINCH, Laboratory Assistant in the Department of Economics and Business Administration.

JACK HUNT, Laboratory Assistant in the Department of Economics and Business Administration.

C. MATTHEWS, JR., Laboratory Assistant in the Department of

JOHN SHAMALEY, Laboratory Assistant in the Department of Mathematics and

Physics.
W. Turner, Laboratory Assistant in the Department of Geology. CLYDE W. TURNER, B.A., Texas, 1940.

ADMINISTRATIVE ASSISTANTS

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

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

MARJORIE ERWIN, Assistant Librarian.

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

MR. MAURINE SMITH JERRELL, Assistant Business Manager. B.A., Texos College of Mines, 1935.

FRANCES LUELLA JOB, Secretary and Transcript Clerk, Office of the Registrar.
B.A., Texas College of Mines, 1935.

Mrs. Isabel Abdou Joseph, Assistant Bookkeeper and Voucher Clerk, Office of the Business Manager. B.A., Texas College of Mines, 1933.

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

MARGARET NEELY, Secretary to the Faculty.

VAYNE PORTER, Assistant Registrar.

MRS. FRANCES SMITH STEVENS, Secretary to the President.

BETTY JOE YOUNG, Switchboard Operator.

CRITIC TEACHERS IN ELEMENTARY TEACHER TRAINING

(El Paso Public Schools)

ESTHER ATKINSON.

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

RUBY COLE.

B.A., Texas Technological Institute, 1936.

LOZIER CONDON.

B.A., Alabama, 1924; M.S., University of Southern California, 1939.

MILDRED DUNLAP, B.A., Sul Ross State Teachers College, 1932,

Appointment effective September 15, 1940.

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PINA MAE EARP. B.A., Texas College of Mines, 1940.

Bessie Farquharson.

B.A., Colorado State Teachers College, 1934.

DOROTHY SCAIFE.

B.A., Sul Ross State Teachers College, 1939.

GRACE SMITH,

B.A., Texas College of Mines, 1934.

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

MARJORIE TALLEY. B.A., Arkansas, 1931.

MARION TATUM.

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

CRITIC TEACHERS IN HIGH-SCHOOL TEACHER TRAINING

(El Paso Public Schools)

MATIHLDE ALONZO.

B.A., Institute de Cuipuzco, San Sebastian, Spain, 1904,

MARGARET BIVINS.

B.A., Texas College of Mines, 1936.

ESTHER BROWN.

B.A., Southern Methodist, 1918; M.A., New Mexico, 1927.

ELIZABETH BRYANT. B.A., Hanover College, 1931.

SADIE BUCK.
M.A., Chicago, 1913. CLARA BELLE BUTLER.

B.A., Baylor, 1924; M.A., Sul Ross State Teachers College, 1940,

CORDELIA CALDWELL.

B.S., Atizona, 1926; M.A., Arizona, 1928.

THELMA CAMPBELL, B.A., Arkausas, 1926; M.A., Columbia, 1933,

FRANCES CULLICAN.
B.A., Arizona, 1928.

Josefina Escajeda.

B.A., Texas College of Mines, 1936.

CATHERINE FLYNN.

B.A., Texas College of Mines, 1932.

VERNON HILL.

Ph.B., Baylor, 1904.

LUCIA HUTCHINS.
Leland Powers College.

WILLIE HERBERT INCELS.

B.A., College of Industrial Arts, 1924.

ROSALIE IVEY.

B.A., Baylor, 1929.

C. M. JERDEN.

B.S., North Texas State Teachers College, 1931; M.S., 1938.

ANNE KELLY.

B.A., Texas, 1925.

GRACE LONG.
B.A., Texas, 1911; M.A., Texas, 1931.

VERA MICHAEL.

B.A., Texas College of Mines, 1933.

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ELAINE MORREL. B.A., Texas, 1913; M.A., Texas, 1936.

LEILA OLIVER. B.S. in Ed., Michigan, 1927.

ELIZABETH REDIC.
B.A., North Texas State Teachers College, 1932.

HELEN REYNOLDS.

B.S., Oklahoma Agricultural and Mechanical College, 1929; M.A., 1935.

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

LUCILE SHAVER. B.A., Missouri, 1921.

MARIE STAMPS. B.A., Baylor, 1923.

RUBY TAPPER. B.A., Wollesley, 1920.

LEWIS TEEL.
B.A., Texas College of Mines, 1934; M.A., Columbia, 1939.

MARJORIE THOMPSON.

B.S. in Ed., Virginia State Teachers College, 1923.

LOLA TIGNER.
B.A., Arizona, 1928.

KATHLEEN TILLEY. B.A., Texas College of Mines, 1936.

JEWELL WALLACE.
B. of Ed., Toxas Christian, 1927.

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.

In 1940 the Board of Regents authorized the conferring of the degree of Master of Arts.

LOCATION

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

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

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

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

El Paso is the industrial center of a large area, and is especially suitable for the location of a college instructing in mining, metallurgy, engineering, The second largest custom smelter in the the sciences, and technology. world is situated about a mile from the College of Mines and Metallurgy. It uses the most modern methods of smelting and treating oves containing copper, lead, gold, silver, and other metals. Within a few miles is also the most modern electrolytic copper refinery, which has a capacity of 20,000,000 pounds of copper in process. There are also nearby a large cement plant, two large brick plants, and three oil refineries. Various manufactories of lime, tile, and other non-metallics are located in the immediate neighborhood of the College. There are other varied industries, such as cotton spinning and weaving mills, cotton oil mills, wood-working mills, etc. There are also large power plants and substations, 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, and a small dressing-room for women, donated by the Woman's Association of the College of Mines. The Main Building contains various lecture rooms, and laboratories for the departments of physics and geology. The Chemistry Building houses the laboratories for chemistry. 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. Seamon Hall houses metallurgy and assaying equipment and laboratories. All the buildings 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 25,000 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. Noteworthy among these gifts is the library of the late Dr. Hugh W. Crouse—a collection of books and periodicals pertaining to every phase of medicine and surgery.

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The geology, mining, language, economics and medicine sections of the library are especially strong. The library is a depository for a select group of government publications and contains an invaluable collection of United States Geological Survey and Bureau of Mines bulletins, some volumes of which are no longer obtainable.

The library regularly receives 297 periodicals—literary, scientific, and technical. Files of these are being accumulated, bound, and preserved, forming a valuable reference collection. There is also a very up-to-date pamphlet collection of miscellaneous subjects to which the students are given full access.

Students are given full use of the excellent facilities of the El Paso Public Library, a collection of 115,000 books, pamphlets, and documents. The Public Library contains an especially strong collection of literature pertaining to the Southwest. The Teachers' Library of El Paso Public Schools may also be used. It is located in the Bailey grade school building.

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.

Through the cooperation of the Museum and the Art Department a series of Art exhibits are brought to the Museum each year. The work of nationally and internationally famous artists is included in each exhibit. All exhibitions are open to the public and the people of the city are cordially invited to view them.

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

There are two modern residence halls, Harry Yandell Benedict Hall for women and Stephen H. Worrell Hall for men, both made possible through the Public Works Administration. Worrell Hall accommodates sixty students and Benedict Hall provides ample facilities for forty students. The dining room for both men and women is located on the first floor of Benedict Hall. 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 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, the degree of Bachelor of Arts, with liberal choices of major subjects in both instances, and the degree of Master of Arts. Students are encouraged to determine as early as is possible their choices in pursuing the work leading to the undergraduate 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 coöperate 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 standard of work required. Definite information in regard to admission to candidacy for the Master's degree may be found outlined elsewhere in this catalogue.

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

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

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

The College also acts an 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 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 problem allied to its objectives, and to incorporate them in its regular instructional and research work. Shipments should be made, and correspondence and inquiries addressed, to the President, College of Mines and Metallurgy, El Paso, Texas.

Rocks, minerals, fossils, ores, geological specimens.—Rocks, minerals, fossils, ores, and other geological specimens will be received gladly for determination and incorporation in the Museum and working collections. 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	22,92
10	semester	hours	20.83
9	semester	hours	18.75
8	semester	hours	16.67
7	semester	hours	14.58
6	semester	hours	12.50
5	semester	hours	10.42
4	semester	hours	8.33
3	semester	hours	. 7,50

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.*

^{*}Sections of the non-resident fee law have been interpreted by the Attorney General of Texas to mean that: (1) a minor cannot acquire a domicile of choice during his minority; (2) the residence of a minor follows that of the father, or if the father is dead, that of the mother; (3) if both parents are dead the residence of the minor follows that of the grandparent, provided the minor lives with the grandparent; (4) the minor whose parents

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

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

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

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

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

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

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

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.

General property deposit.—Every student must make a general property deposit of \$7.00. This deposit is subject to charges for property loss or damages or breakage or violation of rules in any College library or laboratory, failure to return keys furnished by the College, or for damage to or loss of any other College property. If the charges incurred in any term or semester exceed fifty per cent of the deposit, the student, upon notice from the Business Manager, will be required to restore the deposit to the original amount by paying such charges immediately. Students having charges in excess of the deposit must pay the excess immediately; pending payment, no credit will be allowed on the work of that semester or term, and the student will be ineligible to reënter the College. Loss and damage items charged

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

The burden of registering under proper residence is placed upon the student; and it is the duty of each student, at or before registration, if there is any possible question of his right to legal residence in Texas under the State law and College rules, to raise the question with the Business Manager and have such question actiled prior to registration. Attempt on the part of a non-resident to evade the non-resident fee will be taken seriously and may lead to expulsion.

against general property deposits shall be credited to the department or other unit in which the loss or damage occurred.

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

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

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

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

HOUSING REGULATIONS FOR STUDENTS

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

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

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

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

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

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

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

OPPORTUNITIES FOR SELF HELP

To a student who is working his way, a city of the size of El Paso offers a large field of opportunity. A students' employment service is maintained by the College, and every effort will be made to assist the 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

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

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

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

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

Robert E. Lee Loan Fund.—The Robert E. Lee Chapter, No. 1060, United Daughters of the Confederacy, offers an annual loan of \$150. Applicants

must be mining engineering students, must have completed one full year of attendance at the College of Mines and Metallurgy, and must be direct descendants of Confederate soldiers or 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.

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.	Health Officer
Mack Saxon	Instructor
Julia I. Kane	Instructor
H. B. PHILLIPS	Instructor
Jeanette Jaycox	Registered Nurse

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. A registered nurse is in attendance at the school clinic. She resides in the girls' dormitory, attends to the health of resident students, supervises special diets, and gives talks on personal hygiene.

PHYSICAL TRAINING

Physical training is required of each student with rank below that of sophomore in the College of Mines and Metallurgy, unless the student has credit for at least one year of physical training. At the discretion of the student's dean, the physical training requirement may be waived in the case of students over 23 years of age. The exercises prescribed in physical training may be correctional, developmental, or recreational, and, dependent on individual conditions, may vary from absolute rest to strenuous exercise and sports. A student failing to pass the work in any semester will be required to repeat that semester's work. Attendance at lectures in hygiene is required. A fee

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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 38, 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 EXTRACURRICULAR STUDENT ACTIVITIES

List of organizations.—Believing that students are greatly benefited by participation in extracurricular 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)

Camera Club

Co-Ed Association

College Band

College Players (Dramatics)

Forensic Society (Debating)

Gold Diggers (Women's Pep Squad)

Independent Women's Association

International Relations Club

Latin-American Club

M Association (Athletics)

Mining Club

Orange Shirts (Men's Pep Squad)

Pre-Law Club

Pre-Medic Club

Press Club

Scientific Club

Student's Association (the organization of Student Government)

Varsity Singers

Women's Athletic Association

Publications

The Prospector (Weekly)

The Flowsheet (Annual)

Social Organizations

Alpha Chi (National Honorary Society)

Alpha Phi Omega Fraternity (Local Engineering Fraternity)

Alpha Psi Omega (National Dramatics Fraternity)

Chi Omega Sorority (National)

Delta Delta Sorority (National)

Kappa Sigma Kappa Fraternity (Local)

Newman Club (Catholic-Social)

Rho Sigma Phi Fraternity (Local)

Rho Sigma Tau Fraternity (Local)

Sigma Delta Pi Fraternity (National Honorary Spanish Fraternity)

Zeta Tau Alpha Sorority (National)

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

In addition to the foregoing, the officers of each organization are charged with the responsibility of acquainting all of their pledges and members with the rules of procedure for organizations and for social affairs as set up by the Faculty Committee on Student Activities and its subcommittees. 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 extracurricular activities is a privilege that is to be earned by maintaining the standards of scholarship and conduct of the College.

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

- a. Those who are not subject to any phase of disciplinary action.
- Those who are taking twelve or more credit hours of 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 extracurricular activity. (See Rules for Participation, Section a and c, for the definition of office.)

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

ATHLETICS

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

A program of intramural sports offers competition and recreation for men who are not members of varsity teams. Competition is provided for in touchfootball, basketball, softball, boxing, and tennis. Other sports will be added according to student interest and available facilities.

CONDUCT

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

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

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

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

DISCIPLINE

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

- 2. Obedience to the law being a primary duty of the citizen, the conviction of the student for violation of law renders him subject also to disciplinary action on the part of the College.
- 3. A jury indictment for a felony or other offense of serious character suspends the student, without prejudice, until acquitted.
- 4. Illegal conduct, such as the drinking of intoxicating liquors, gambling, and dishonesty, renders the student subject to discipline.
- 5. The College, in common with other institutions, has for its orderly and efficient conduct, special regulations additional to the laws of the land. These special regulations are so easily available to all students that each student is charged with notice and knowledge thereof.
- 6. Persons not registered in the College when accused of misconduct that affects college life and work, if former or prospective students, will have the known circumstances inscribed in their record as a persumption 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 extracurricular activities; suspension of eligibility for any student office or honor; publication of the name of the offender, his offense, and the penalty imposed; increase in the number of courses required for a degree; cancellation of credit for scholastic work done; suspension from the College; expulsion; or such other penalty as in the opinion of the Faculty Committee on Discipline seems proper.

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

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

A student on probation who absents himself from any class exercise or neglects any class work, except for reasons considered imperative by his

Dean, will thereby drop his name from the College rolls for the remainder of the session.

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

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

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

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

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

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

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

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

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

ADMISSION REQUIREMENTS

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

GENERAL REQUIREMENTS

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

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

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

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

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

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

GENERAL SCHOLARSHIP REQUIREMENTS

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

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

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

Section A

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

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SUBJECT	UNITS	SUBJECT UNITS
English Group		Natural Science Group
English	. 3-4	Biology 1
Foreign Language Group Czech French German Greek Latin	. 2–3 . 2–3 . 2–3 . 2–3 . 3–4	Botany 1 Chemistry 1 General Science 1 Physics 1 Physiography ½ Physiology and hygiene ½-1 Zoology 1
Spanish	1½-2 - 1 - ½	Social Science Group 1 Early European history 1 Modern European history 1 World history 1/2-1 American history 1/2-1 Civics 1/2-1 Economics 1/2

Section B

Any other accredited subject or subjects (but not fragments) counted toward graduation by the accredited secondary school except (1) drill subjects, such as penmanship, physical education, military training, etc.; (2) extracurricular subjects, such as band, glee club, etc; and (3) diversified occupations. A single unit in a foreign language may be counted in this section_____1/2-4

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 1. 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 6 and January 21, respectively. Requests for full information in regard to these series should be addressed to the Registrar of the College.

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 obtained from 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 bimself 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 1. 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.

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

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

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

MINING AND METALLURGY

The unit requirements for admission to Engineering are as follows:

SUBJECT UNITS
1. English 3
2. Mathematics
Algebra1½
Plane Geometry 3
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) total4
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
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Total15

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."

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SCHOLASTIC REGULATIONS

REGISTRATION

For the Long Session of 1941-1942 the registration days are as follows: First semester: September 10-11, Wednesday-Thursday.

Second semester: January 23-26, Friday-Monday, registration of new students.

January 30-31, Friday-Saturday, 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.

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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 las is the first half of English 1 (freshman English) given in the second semester and carrying three semester hours of credit, which, however, cannot be counted for graduation until English 1b, the second half of English 1, has been completed.

AMOUNT OF WORK

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

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

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

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

ADDING AND DROPPING COURSES

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

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

A student in attendance during the long session shall not be permitted 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 the Health Officer all absences due to illness of any kind.

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

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

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

OFFICIAL BULLETIN BOARDS

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

EXAMINATIONS

Semester examinations.—The Faculty has ruled that exemptions from examinations may not be given. To encourage preparation for examinations.

the Faculty has further ruled that during the last seven days of each semester before examinations no written examination or review shall be given; and all essays, theses, synopses, and the like must be handed in before this period begins.

In all examinations, account is taken of the student's use of English and of the form of the paper in general, the grade being lowered because of deficiencies in these regards as well as in the subject-matter proper.

Absence from semester examinations.—A student who is compelled to be absent from a semester examination on account of sickness or other imperative cause should petition his Dean, beforehand if possible, for permission to postpone the examination. In cases of illness the petition must have the approval of the Health Officer. 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.

Incompleted work.—Grades for work not completed 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 PX 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-PX 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* or PX, 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* or PX will be placed on Final Trial; and a student on Final Trial whose score cannot be determined because of grades of *Incomplete* or PX 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 12 and March 24 reports are due on all students making a grade of D or below from instructors to the Registrar, who will then issue notices to parents or guardians of students doing work below the passing grade D. Crades 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.

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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 tour 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. or PX, 0. Zero (0) courses are not counted in scoring.

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

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

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

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

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

In interpreting this section, a student taking twelve or more credit hours with an included course of four or more credit hours shall not be placed

on Special Observation or Final Trial, or be dropped from the rolls for scholastic reasons if he makes, in the courses taken, not less than the following grade point count: 117 points for first-year students, 135 points for second-year students, or 162 points for upper-division students, provided he does not have a grade of F in more than one course.

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

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. or PX) 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 reënters 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 cannot be determined because of postponed (Inc. or PX) grades will be dropped from the rolls of the College.

Restoration to good standing.—A student who has been placed on special Observation or Final Trial will, be restored to good standing at the end of any semester in the long session in which he makes a C average in at least twelve semester hours. If he be registered for less than twelve but for nine or more semester hours, he must pass all work taken with a grade of C or 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 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.

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 curricular 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.

Requirements for Degrees

UNIFORM CURRICULUM FOR THE FIRST AND SECOND YEARS

First Year

		Hrs. p	er Wk.	e
Course and Number	Title of Course	Class		Sem. Hr Credit
	First Semester			
Chemistry 801a Gen	eral Chemistry	3	3	4
Drawing 301Eng	ineering Drawing	0	9	3
English 1aRhe	toric and Composition	3	0	3
Geology 301Prir	etoric and Composition	3	3	3
Mathematics 803a _Eler	mentary Mathematical Analysis	4	0	4
P. T. 01Phy	sical Training (No Credit)	3	0	0
	·			— 17
	Second Semester			
Chemistry 801bGen	eral Chemistry	3	3	4
	criptive Geometry	0	9	· 3
	toric and Composition	3	0	3
	nciples of General Geology	3	3	3
	mentary Mathematical Analysis	4	Ô	4
	sical Training (No Credit)	3	Ō	ō
				-
	Second Year			
	First Semester			
Chemistry 311Qua	ditative Analysis	1	6	3
English 310Tec	hnical Writing	3	0	3
	eralogy		6	3
	erican Government		0	3
	culus	3	0	3
Physics 812aMed	chanics, Heat	3	3	4
				<u> </u>
	Second Semester			19
Chemistry 413Qua	intitative Analysis	1	8	4
Engineering 313Plan	ne Surveying	3	0	3
Geology 217Min	eralogy	0	6	2
Government 10bAm	erican Government	3	0	3
	culus		0	3
Physics 812bElec	ctricity and Magnetism	3	3	4
				 19
· 	Summer School			
Engineering 414Fiel	ld Surveying:—Summer Work;			
g	hours a day for four weeks		192	4

MINING OPTION

Third Year

	Hrs. p	er Wk.	C 77
Course and Number Title of Course	Class	Lab.	Sem. Hr Credit
First Semester		-	
Chemistry 323Quantitative Analysis	1	6	3
Geology 421Advanced General Geology	3	3	4
Mathematics 325Calculus	3	0	3
Metallurgy 423Ore Dressing and Milling	3	3	4
Mining 521Mining Methods	5	0	5
			19
Second Semester	_		
Engineering 322Mine and Route Surveying	2	3	3
Engineering 533Applied Mechanics and Graphic			_
Statics	3	6	5
Geology 322General Economic Geology	3	0	3
Metallurgy 321General Metallurgy	3	0	3
Metallurgy 324Assaying	1	6	3
Physics 222Sound and Light	I	3	2
			19
Summer School			
Engineering 224 Mine Surveying:—Field Work; 8			
hours a day for two weeks		96	2
Fourth Year			
First Semester			
Economics 312Principles of Economics	3	0	3
Engineering 433Strength of Materials	3	3	4
Engineering 354Hydraulics	3	0	3
Geology 264Field Geology	1	3	2
Metallurgy 261Metallurgy of Iron, Copper and			
Lead	2	0	2
Mining 260Mine Plant	2	0	2
Mining 267Management	2	0	2
-			 18
Second Semester	-		
Engineering 431Electrical Circuits and Machines	3	3	4
Engineering 334Masonry and Reinforced Concrete	3	0	3
Engineering 350Steam Power Plants	3	0	3
A	2	0	2
Mining 231 Mine Hygiene	1	3	2
Mining 231 Mine Hygiene Mining 261Mine Plant		c	2
Mining 261Mine Plant	0	6	
Mining 261Mine Plant Mining 262Mine Plant Design	0 2	0	
Mining 261Mine Plant	_		2

MINING GEOLOGY OPTION Third Year

	Hrs. p	er Wk.	
Course and Number Title of Course	Class	Lab.	Sem. Hre Credit
First Semester			
Chemistry 323Quantitative Analysis	1	6	3
Geology 421Advanced General Geology	3	3	4
Mathematics 325Calculus	3	0	3
Metallurgy 423Ore Dressing and Milling	3	3	4
Mining 521Mining Methods	5	0	5
			19
Second Semester			
Engineering 322Mine and Route Surveying	2	3	3
Engineering 533Applied Mechanics and Graphic			
Statics	3	6	5
Geology 322General Economic Geology	3	0	3
Geology 427Petrology and Petrography	2	6	4
(or)			
Geology 463Geology of Petroleum, the Fuels			
and the Non-Metallics	3	3	4
Elective	2	0	2
Physics 222Sound and Light	1	3	2
			19
Summer School			
Engineering 224Mine Surveying:—Field Work: 8			
hours a day for two weeks		96	2
Fourth Year			_
First Semester	_		_
Economics 312Principles of Economics	3	0	3
Engineering 433Strength of Materials	3	3	4
Engineering 354Hydraulics	3	0	3
Geology 418Invertebrate Paleontology	2	6	4
Geology 264Field Geology	1	3	2
Mining 267Management	2	0	2
			18
Second Semester			
Engineering 334Masonry and Reinforced Concrete	3	0	3
Engineering 350Steam Power Plants	3	0	3
Geology 427 Petrology and Petrography	2	6	4
OT			
Geology 463Geology and Petroleum, the Fuels			
and the Non-Metallics	3	3	4
Geology 361Advanced Economic Geology	2	3	3
	1	6	3
Metallurgy 324Assaying		_	_
Mining 269Management	2	0	2
	2	0	2 0

METALLURGY OPTION

Third Year

		Hrs. pe	r Wk.	
Course and Number	Title of Course	Class		Sem. Hrs Credit
	First Semester		·	
Chemistry 323	Quantitative Analysis	1	6	3
Chemistry 325	_Physical Chemistry	2	3	3
Mathematics 325	Calculus	3	0	3
Metallurgy 423	_Ore Dressing and Milling	3	3	4
	Mining Methods	5	0	5
				— 18
	Second Semester			10
Chemistry 326	_Physical Chemistry	2	3	3
	_Applied Mechanics and Graphic			_
C 1 000	Statics	2	6	5
	General Economic Geology	3	0	3
Metallurgy 321	General Metallurgy	3	0	3
Metallurgy 324	Assaying	1	6	3
Physics 222	_Sound and Light	1	3	2 —
				19
· · · · · · · · · · · · · · · · · · ·	Fourth Year		_	
	First Semester			
Economics 312	Principles of Economics	3	0	3
Engineering 433 _	Strength of Materials	3	3	4
Metallurgy 361	Metallurgy of Iron, Copper and Lead	3	0	3
Metallurgy 362	_Metallurgy of Leaching Processes	2	3	3
Metallurgy 263	_Advanced Ore Dressing	2	0	2
Metallurgy 265	_Ore Dressing Laboratory	0	6	2
Mining 267	Management	2	0	2
				<u> </u>
	Second Semester			
Engineering 350 _	_Steam Power Plants	3	0	3
	Electrical Circuits and Machines	3	3	4
Engineering 334 _	_Masonry and Reinforced Concrete_	3	0	3
Metallurgy 364	Metallurgical Laboratory	0	9	3
Metallurgy 473		3	3	4
Mining 269	_Management	2	0	2
-	Senior Trip			0
				· <u> </u>
<u></u>				19

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 President in writing 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 six semester hours in advanced courses in the major subject must be completed in residence.

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

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

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

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

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

Special Provisions.—Upon completion of sixty semester hours of work, including the courses specified for the first and second years in the outline for one of the various majors, the student must petition the Faculty through the Registrar for permission to become a candidate for a degree. This petition will not be accepted unless the average grade of such work completed is 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 Faculty through the Registrar for permission to continue his candidacy for a degree. This petition will not be accepted unless the average grade of such work completed is 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 Science, Chemistry,† Geology, Mathematics,† Physics.†

Group B

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

Minor: Biological Sciences, Business Administration, Chemistry, Economics, Education, English, French Geology, Government, History, Journalism, Music, Mathematics, Physical Education, 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 advanced courses, in a major subject chosen from one of the major groups listed under "Concentrations."

^{*}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.

- 2. Not less than eighteen semester hours, at least six of which must be of advanced courses, in another subject chosen as a minor, in accordance with the limitations indicated in the concentration groups.
 - 3. Twelve semester hours in English (English I and 12).
- 4. Completion of Course 12 or 13 in one foreign language, either modern or ancient.
 - 5. Six semester hours in each of any/of the natural (laboratory) sciences.*
- 6. Six semester hours in Mathematics or numbered courses of Latin or German or Greek. Any hours in numbered courses of Latin or German or Greek offered in satisfaction of the Mathematics requirement may not be used to satisfy Requirement 4 or as a part of a major or minor.
- 7. Six semester hours in American and Texas Government (Government 10).
 - 8. Three semester hours in philosophy or psychology.
 - 9. Six semester hours in social science; in addition to requirements 7 and 8.
- 10. Not less than a total of thirty semester hours of advanced courses\$ and not more than a total of sixty-six semester hours in the major and minor subjects.
- 11. Enough other courses to make at least one hundred and twenty semester hours.
 - 12. Physical Training without credit as prescribed in the Freshman 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."

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

^{*}Botany, biology, chemistry, geology, zoology.

[‡]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.

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"

	:	HOURS
1.	Business Administration 311, 314, 332, 20, and nine additional semester hours of business administration, at least three of which must be advanced.	
2.	Minor subject, eighteen semester hours, six of which must be advanced	
3.	English 1, and 12 or 12Q	12
4.	•Foreign language—the completion of a course numbered 12 or 13	
	Science (laboratory)—six semester hours in each of any two of the following sciences: botany, biology, chemistry, physics, geology, zoology——————————————————————————————————	12
	Mathematics or numbered courses of Latin* or German* or Greek*	. 6
7.	Government 10	. 6
8.	Philosophy or psychology.	. 3
9.	Social science†	. 6
	Electives, twelve semester hours of which must be advanced Physical training—no credit.	
		190

^{*}See Number 6 under Course Requirements.

[†]Economics, government, history, philosophy, psychology, sociology or combination.

ECONOMICS MAJOR

Minor-See Group B under "Concentrations"

	Kequirements	
		HOUR
1.	Economics 312, 313, 329, and fifteen additional semester hour of economics, at least nine hours of which must be advanced	
2.	Minor subject, eighteen semester hours, six of which must be advanced	
3.	English 1 and 12 or 12Q	_ 12
4.	*Foreign Language—the completion of a course numbered 1: or 13	
5.	Science (laboratory)—six semester hours in each of any two of the following sciences: botany, biology, chemistry physics, geology, zoology	•,
6.	Mathematics or numbered courses of Latin* or German* of Greek*	_
7.	Government 10	_ 6
8.	Philosophy or psychology	_ 3
9.	Social science (See No. 1)	. 0
0.	Electives, twelve semester hours of which must be advanced_	_ 27
1.	Physical training—no credit	. 0
		120

^{*}See Number 6 under Course Requirements.

[†]Economics, government, history, philosophy, psychology, sociology or combination.

EDUCATION MAJOR

Minor-See Group B under "Concentrations"

PLAN I

GENERAL REQUIREMENTS

(Note.—These are the minimum requirements for the B.A. degree, but do not necessarily lead to a certificate or recommendation for a teaching position.)

Requirements HOURS 1. Education—twenty-four semester hours, twelve of which must be of advanced courses_____ 2. Minor-eighteen semester hours of numbered courses, six of which must be advanced_____ 18 3. English 1 and 12 or 12Q______ 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, 12 physics, geology, zoology..... 6. Mathematics or numbered courses of Latin* or German* or Greek* _____ 7. Government 10 ______ 8. Philosophy or psychology..... 9. Social Science† 6 10. ‡Elective, twelve semester hours of which must be advanced... 11. Physical 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 bours of advanced courses.

PLAN II

REQUIREMENTS FOR HIGH-SCHOOL TEACHERS

(Note.—Those who desire a permanent high-school certificate and expect to be recommended for high-school positions must satisfy the following requirements for the Bachelor of Arts degree.)

	Kedmisments	HOURS
	Education 301, 316, 317, 359, 355, 27, and three additional semester hours of methods in the academic major.	
2a.	Academic major—twenty-four semester hours, twelve of which must be of advanced courses	
2b.	Academic minor—eighteen semester hours, six of which must be of advanced courses	18
3.	English 1 and 12 or 12Q	12
	Foreign language—the completion of a course numbered 12 or 13	٠.
5.	Science (laboratory)—six semester hours in each of two of the following sciences: botany, biology, chemistry, physics, geology, zoology (at least six semester hours to be chosen from biology, botany, or zoology)	
6.	Mathematics	. 6
7.	Government 10	6
8.	See No. 1	0
9.	Social Science—History 315 or 316, and three semester hours of Texas History	
10.	Electives	. 0
11.	Physical training—no credit	0
		120

Counseling program.—By the end of the Sophomore year the prospective teacher will be required to take examinations covering the following items for counseling and advisory purposes: personality, special subject aptitudes, speech, and general aptitude in the four major fields.

PLAN III

REQUIREMENTS FOR ELEMENTARY SCHOOL TEACHERS

(Note.—Those who desire a six-year elementary school certificate and expect to be recommended for elementary school positions must satisfy the following requirements for the Bachelor of Arts degree.)

	1	HOURS
1.	Education 301, 314, 318, 359, 28, 355, and 331T	24
2.	Design 301, Public School Art 321, Music 301, Public School Music 351, three semester hours of Children's Literature, and six semester hours of Physical Education	21
3.	English I and 12 or 12Q	12
	Foreign language—the completion of a course numbered 12 or 13	
5.	Science (laboratory)—six semester hours of botany, zoology, physics, chemistry, or biology and six semester hours of geology (including Geography 303)	
6.	Mathematics	6
7.	Government 10	6
8.	See No. 1	0
9.	Social Science—History 315-316, Sociology 310, and three semester hours of Texas History	
10.	Electives—including enough advanced courses to complete the required total of thirty advanced hours	
11.	Physical Training—no credit	
		120

Counseling program.—By the end of the Sophomore year, prospective elementary teachers will be required to take an examination for counseling and advisory purposes covering elementary-school fundamentals, speech, and personality.

ENGLISH MAJOR

Minor-See Group B under "Concentrations"

	H	DUR
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
	*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 Cerman* or Greek*	6
7.	Government 10	6
8.	Philosophy or psychology	3
9.	Social Sciencet	12
10.	Electives, twelve semester hours of which must be advanced	27
	Physical training—no credit	0
10.	Electives, twelve semester hours of which must be advanced	27
	1	20

^{*}See Number 6 under Course Requirements.

[†]Economics, government, history, philosophy, psychology, sociology or combination.

HISTORY MAJOR

Minor-See Group B under "Concentrations"

I.	History—twenty-four semester hours, twelve of which must be advanced
2.	Minor-eighteen semester hours, six of which must be advanced
3.	English 1 and 12 or 12Q
4.	*Foreign language—the completion of a course numbered 12 or 13
5.	Science (laboratory)—six semester hours in each of any two of the following sciences: botany, biology, chemistry, physics, geology, zoology
6.	Mathematics or numbered courses of Latin* or German* or Greek*
7.	Government 10
8.	Philosophy or psychology
9.	Social Science (See No. 1)
10.	Electives, twelve semester hours of which must be advanced
	Physical training—no credit

^{*}See Number 6 under Course Requirements. †Economics, government, history, philosophy, psychology, sociology or combination.

JOURNALISM MAJOR

Minor-See Group B under "Concentrations"

 Journalism 12 and eighteen additional semester hours, twelve of which must be advanced		
2. Minor—eighteen semester hours, six of which must be advanced 3. English 1 and 12 or 12Q 4. *Foreign language—the completion of a course numbered 12 or 13 5. Science (laboratory)—six semester hours in each of any two of the following sciences: botany, biology, chemistry, physics, geology, zoology 6. Mathematics or numbered courses of Latin* or German* or Greek* 7. Government 10 8. Philosophy or psychology 9. Social Science† 10. Electives, twelve semester hours of which must be advanced	of which must be advanced	
 4. *Foreign language—the completion of a course numbered 12 or 13 5. Science (laboratory)—six semester hours in each of any two of the following sciences: botany, biology, chemistry, physics, geology, zoology——————————————————————————————————	2. Minor—eighteen semester bours, si advanced	x of which must be
 4. *Foreign language—the completion of a course numbered 12 or 13 5. Science (laboratory)—six semester hours in each of any two of the following sciences: botany, biology, chemistry, physics, geology, zoology——————————————————————————————————	3. English 1 and 12 or 12Q	
5. Science (laboratory)—six semester hours in each of any two of the following sciences: botany, biology, chemistry, physics, geology, zoology— 6. Mathematics or numbered courses of Latin* or German* or Greek* 7. Government 10————————————————————————————————————	4. *Foreign language-the completion of	a course numbered 12
6. Mathematics or numbered courses of Latin* or German* or Greek* 7. Government 10 8. Philosophy or psychology 9. Social Science† 10. Electives, twelve semester hours of which must be advanced	of the following sciences: botar	ay, biology, chemistry
8. Philosophy or psychology 9. Social Science 10. Electives, twelve semester hours of which must be advanced.	6. Mathematics or numbered courses of	Latin* or German* or
9. Social Science?		
9. Social Science?	8. Philosophy or psychology	
10. Electives, twelve semester hours of which must be advanced	9. Social Sciencet	
	10. Electives, twelve semester hours of w	vhich must be advanced

^{*}See Number 6 under Course Requirements.
†Economics, government, history, philosophy, psychology, sociology or combination.

MODERN LANGUAGE MAJOR

Minor-See Group B under "Concentrations"

Major language—courses 1 and 12 and twelve additional semester hours of advanced courses* Minor—eighteen semester hours, six of which must be	24
·	
advanced	18
3. English 1 and 12 or 12Q	12
4. *Foreign language—the completion of a course numbered	12
5. Science (laboratory)—six semester hours in each of any two of the following sciences: botany, biology, chemistry, physics, geology, zoology	
6. Mathematics or numbered courses of Latin* or German* or Greek*	6
7. Government 10	6
8. Philosophy or psychology	3
9. Social Sciencet	6
10. Electives, twelve semester hours of which must be advanced	21
11. Physical training—no credit	120

^{*}See Number 6 under Course Requirements. †Economics, government, history, philosophy, psychology, sociology or combination.

MUSIC MAJORS

Public School Music

Minor-Applied Music

Requirements	
	HOURS
1. Music 1, 10, 30, and Public School Music 51‡ or 52§	24
2a. Applied Music (in addition to Freshman non-credit course)	
eighteen semester hours, six of which must be advanced	18
2b. Education 301, 314‡ or 316§, 317§ or 318‡	9
3. English 1 and 12 or 12Q	12
4. *Foreign language—the completion of a course numbered 12 or 13	
5. Science (laboratory)—six semester hours in each of any two of the following sciences: botany, biology, chemistry, physics, geology, zoology	
6. Mathematics or numbered courses of Latin* or German* or	
Greek*	6
7. Government 10	
8. Philosophy or psychology	3
9. Social Sciencet	
10. Electives, advanced courses	12
11. Physical training—no credit	0
	120

^{*}See Number 6 under Course Requirements.

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

IFor elementary teacher's certificate.

For high-school teacher's certificate.

Music Theory

Minor-Applied Music

Requirements

		НO
ı.	Music 1, 10, 30, and 20 or 40 or 50	_
2.	Applied Music (in addition to Freshman non-credit course) -	-
	eighteen semester hours, six of which must be advanced	.]
3.	English 1 and 12 or 12Q	.]
4.	*Foreign language—the completion of a course numbered 12 or 13	
5.	Science (laboratory)—six semester hours in each of any two of the following sciences: botany, biology, chemistry physics, geology, zoology——————————————————————————————————	, ,
6.	Mathematics or numbered courses of Latin* or German* or Greek*	
7.	Government 10	-
8.	Philosophy or psychology	
9.	Social Sciencet	_
10.	Electives, twelve semester hours of which must be advanced	:
11.	Physical training—no credit	-

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^{*}See Number 6 under Course Requirements.

[†]Economics, government, history, philosophy, psychology, sociology or combination.

SCIENCE MAJOR*

Minor†-See Group A under "Concentrations"

		HOUR
1.	Major science—twenty-four semester hours, twelve of which must be advanced.	
2.	A second science—eighteen semester hours, six of which must be advanced?	
3.	English 1 and 12 or 12Q	. 12
4.	Foreign language—the completion of a course numbered 12 or 13	
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

^{*}When registering for this major, the student should be careful to secure proper advice concerning the order and choice of courses.

[†]A different minor may be chosen only with the consent of the head of the major department and the approval of the dean.

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

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

MASTER OF ARTS

General information.—Graduate study officially begins in the Summer Session in June, 1941. Courses in Education, English, and History will be offered as majors leading to the Master of Arts degree. In addition to the major fields of study minors will be offered in the following fields: Biological Sciences, Chemistry, Business Administration, Economics, Geology, Mathematics, Physics, and Spanish.

Applicants for admission to graduate study must hold the Bachelor of Arts degree or its equivalent. Exceptions to this general requirement will be made only with the approval of the Graduate Council.

Graduate credit for work done in the College of Mines before Juse, 1941, is subject to the approval of the Graduate Council, each case being handled individually.

Not more than six semester hours of work may be accepted for graduate credit from another institution of equal rank in which the applicant was enrolled at the time the work was taken.

Graduate credit may be secured in courses of Junior-Senior or higher rank provided the student is eligible with respect to course prerequisites and graduate study.

Residence requirements.—One academic year of two semesters; or one semester and two summer sessions; or three summer sessions. Part-time work will be evaluated as part-time residence.

Minimum requirements.—Twenty-four (24) semester hours of course work, a thesis counting six (6) semester hours, and the passing of an oral examination. The thesis must be approved by a committee representing the major and minor fields of study. A grade of B is required in any course submitted for graduate credit.

Further information.—More detailed information can be obtained from the chairman of the Graduate Council. Evaluation of credits, transferred or otherwise, must be handled through the office of the Registrar.

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

REQUIREMENTS FOR ADMISSION TO THE UNIVERSITY OF TEXAS SCHOOL OF LAW

Applicants for admission to the School of Law of The University of Texas beginning with September, 1941, must hold a bachelor's degree.

Work Preparatory to Medicine

Leading to Degree of Bachelor of Arts

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

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

Freshman Year: English 1; French 1 or German 1; six semester hours in mathematics; Chemistry 801; Zoology 301-302.

Sophomore Year: English 12; French 12 or German 12; Chemistry 311 and 413; Physics 801; Zoology 14.

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

WORK PRELIMINARY TO OTHER ENGINEERING DEGREES

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

STATE TEACHERS' CERTIFICATES

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

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

Students intending to teach in the elementary grades are advised to take Plan III under the Education major.

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. Students intending to teach in the high school are advised to take Plan II under the Education major.

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

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.

317s. 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.

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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

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

Botany

301]. 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.

382s. 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.

Zoology

- 3011. General Zoology.—Designed to give an introduction to theoretical biology, followed by a survey of the invertebrates, including references to their importance in the environment of man. Two lectures and four laboratory hours. Laboratory fee, \$2. Credit value: Three semester hours.
- 302s. General Vertebrate Zoology.—A survey of the structure of vertebrates, introduction to animal histology and genetics. Prerequisite: Zoology 301. Two lecture hours and four laboratory hours. Laboratory fee, \$2. Credit value: Three semester hours.
- 14. Vertebrate Zoology.—Laboratory study of the structure of dog-fish, necturus, turtle, bird, mammal, and perhaps other type requisite: Zoology 302. 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 301 and 302 completed with a grade of at least C, and Zoology 14 concurrently. 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 14; for juniors and seniors, Zoology 301 and 302 completed with a grade of at least C, and Zoology 14 concurrently. 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

Professors Lake, Seamon; Instructors Abernethy, Ball; Assistant Matthews

1. General Chemistry.—Fundamental principles of chemistry. Designed for those students whose formal education in chemistry terminates with one year's work in the subject or whose degree plans stipulate six hours of general chemistry as the total requirement in that science. May not be used as a prerequisite for any other chemistry course. Two lectures, one demonstration hour, and two laboratory hours per week. Laboratory fee, \$4. Credit value: Six semester hours.

801. General Chemistry.—The laws and theories of chemistry; the chemical elements and their most important compounds with reference to their production and use. For students who need a foundation for work in advanced chemistry and related sciences. Three lectures and three laboratory hours. Laboratory fee, \$4. Credit value: Eight semester hours.

305/s. A review of the fundamental principles of elementary chemistry and their application. Required of all students who, after trial and a qualifying examination, are found insufficiently prepared to carry Chemistry 801a and who plan to register for that course the next succeeding semester. May not be used as a prerequisite for any chemistry course other than 801a. Two lecture hours, one demonstration hour, and two laboratory hours per week. Credit value: Three semester hours. May not be counted in addition to Chemistry 801a or 1a.

311f. Qualitative Analysis.—Intended to emphasize the principles involved in chemical analysis, to broaden the student's knowledge of inorganic chemistry, to develop deductive reasoning power, and to give practice in manipulation. The student is required to analyze unknown solids and solutions. Prerequisite: Chemistry 801a and 801b with a grade of not less than C in each. One lecture and six laboratory hours. Laboratory fee, \$2. Credit value: Three semester hours.

413s. Quantitative Analysis.—The quantitative analysis of chemical salts, minerals, ores, rocks, and industrial products. Prerequisite: Chemistry 311. The last three semester hours of this course count as advanced. One lecture and eight laboratory hours. Laboratory fee, \$4. Credit value: Four semester hours.

21 and 821. Organic Chemistry.—A study of the fundamental types of carbon compounds. Prerequisite: Chemistry 801 with a grade of C and Chemistry 413. 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.

323]. Quantitative Analysis.—A continuation of Chemistry 413. Prerequisite: Chemistry 413. 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.

DESIGN AND INTERIOR DECORATING

ASSISTANT PROFESSOR WISE

301/s. Elementary Design.—A course in elementary design, stressing fundamental principles of art. Balance, rhythm and harmony in composition. Color theory with the same principles involved. Organization and plan in creative art. Outdoor sketching and study of natural forms, plants, etc., for design. A course planned to develop the artistic ability of the student. Three lectures and three laboratory hours per week. Laboratory fee, \$2. Credit value: Three semester hours.

302s. Elementary Design.—Continued study of fundamental principles of design with emphasis upon composition and application to decorative forms in commercial and industrial design. Consideration will be given to the technique of handling media, pencil, charcoal, water color, etc., in creative design. Three lectures and three laboratory hours per week. Laboratory fee, \$2. Credit value: Three semester hours.

310]. Interior Decoration.—The course will include consideration of the fundamental principles of room decoration; the use of fabrics, furniture and accessories; color theory in decoration, and a study of the relation of interior design to architecture; and early history of period design. Three lecture and three laboratory hours per week. Laboratory fee, \$2. Laboratory hours to be arranged by instructor. Credit value: Three semester hours. Prerequisite: Design 301 and 302.

311s. Interior Decoration.—Continuation of survey of period design from Renaissance through English and French periods to Colonial, and study of modern design. Particular attention to fabrics, their history and weaves. Adaptation of color theory studied in Design 301. House plans and blue prints studied. Three lecture hours and three laboratory hours per week. Laboratory fee, \$2. Laboratory hours to be arranged by instructor. Credit value: Three semester hours. Prerequisite: Design 310.

312f. Advanced Design.—An advanced course in design with emphasis on its adaptation in different fields of art, according to the tendencies of the individual student. Creative ability of student thus fostered as design in industry, advertising, etc., are explored. Technique in pencil, water color, oil, tempora studied according to individual need of student. Emphasis placed on form and expression in art. Outdoor sketching trips. Three lecture and three laboratory hours per week. Laboratory fee, \$2. Credit value: Three semester hours. Prerequisite: Design 301 and 302.

313s. Advanced Design.—Continuation of study in advanced design. Outdoor sketching. Organization of materials for various uses; landscape painting, still life, murals, posters, etc. Continued stress on technique and expression through form. Study of anatomy and figure drawing. Three lecture and three laboratory hours per week. Laboratory fee, \$2. Credit value: Three semester hours. Prerequisite: Design 312.

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320f. Art History and Appreciation.—A survey of the work of the more important artists from the Italian Primitives to modern art. Analysis of motives and techniques of artists with view of better understanding and an appreciation of their work. Art and its part in history and life throughout the centuries. Credit value: Three semester hours. Prerequisite: Junior standing.

321s. Public School Art.—A course in materials and methods for those preparing to teach art in the public schools. Actual work in materials involved, crayon, paper cutting etc. Study of methods of developing the creative ability of the child. Credit value: Three semester hours. Prerequisite: Junior standing including Design 301.

ECONOMICS AND BUSINESS ADMINISTRATION

PROFESSOR MORRIS; ASSISTANT PROFESSOR SMITH; INSTRUCTOR HARCRAVES

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 each departmental course bears to others 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 such courses as shorthand, typewriting, office practice, business letter writing, etc. Students majoring or minoring (or both) in this department, then, would do well to consider carefully the following suggestions of courses. (a) For persons interested in General Economics: among others, Economics 321, 322, 332, 325, and 358; and Business Administration 311-314. (b) For students interested in General Business Training: among others, Business Administration 10, 20, 357, 331, 337, and 23; and Economics 312-313. (c) For students concentrating in Accounting: among others, Business Administration 326, 327K, 329, 330, 331, 20, and 23; and Economics 322 and 349. (d) For students interested in Secretarial Science: among others, Business Administration 10, 20, 21, 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 coördinated 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

312/s. 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;

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 economic distribution in a capitalistic society. Theories underlying the determination of rent, wages, interest and profits. Public utilities; protective tariffs; the business cycle; public revenue and taxation; 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 sales tax; the property tax; income taxes; inheritance taxes. Analysis of government expenditures; public credit. Prerequisite: Economics 313. Credit value: Three semester hours. (Given in 1940-1941, to be omitted in 1941-1942.)
- 322]. 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; 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. May not be counted for credit in addition to Business Administration 454. (Omitted in 1940–1941; to be offered in 1941–1942.)
- 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 remedies of a changing price level. Prerequisite: Economics 313. Credit value: Three semester hours. (Given in 1940–1941; to be omitted in 1941–1942.)
- 329f. Economic Statistics.—Training in the quantitative methods of dealing with mass data. The use of graphic and tabular methods of presentation of facts. Measures of central tendency; index numbers; measures of dispersion and skewness; time series analysis; 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 or 332.)
- 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. (Omitted in 1940-1941; to be given in 1941-1942.)
- 333s. Advanced Statistics.—A review of the measures of central tendency with short-cuts; dispersion measurements technique; the theory of the normal curve and the expansion of the binomial; the theory of standard deviation and its relation to curve fitting; simple, multiple, linear, curvilinear, and

partial correlation. Prerequisite: Economics 329. Credit value: Three semester hours. (Given in 1940-1941; to be omitted in 1941-1942.) May not be counted for credit in addition to Business Administration 333.

341s. Advanced Banking Theory and Practice.—A study of banking in its relation to the economic world; promotion and incorporation; banking organization and powers; the directors; stockholders; clearing and collection system; credit analysis; banking departments; the Federal Reserve System; open market operations; specialized houses for financing short-term credit. Prerequisite: Economics 313. Credit value: Three semester hours. May not be counted for credit in addition to Business Administration 341. (Omitted in 1940–1941; to be offered in 1941–1942.)

343f. Comparative Economic Systems.—A consideration of the economic foundations of the capitalistic and other systems. An objective study of the economic construction of Fascism, Nazism, Socialism, Communism, and Capitalism. Prerequisite: Economics 313. Credit value: Three semester hours. (Given in 1940–1941; to be omitted in 1941–1942.)

349s. 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 Congress for Industrial Organization; strikes; lockouts; current issues. The Wagner Act. Prerequisite: Economics 313. Credit value: Three semester hours. (Omitted in 1940-1941; to be offered in 1941-1942.)

350s. Introduction to Foreign Trade.—Principles of international movements of economic goods; the protective tariff and free trade controversy; the control of raw materials; techniques in shipments of physical commodities; financing transactions. Prerequisite: Economics 313. Credit value: Three semester hours. May not be counted for credit in addition to Business Administration 350. (Omitted in 1940-1941; to be offered in 1941-1942.)

352. Twentieth Century Economics.—The struggle associated with modern organizations of labor; twentieth century finance; the price level and economic stability; the reciprocal trade agreement question and international economics; problems of government control. Prerequisite: Economics 313. Credit value: Three semester hours. (Given in the Summer Session 1940.)

358. International Economic Relations.—Mercantilism as a background; English commercial development; American colonial development as related to internationalism; tariff history; problems of free trade; international movements of money; international commercial entanglements; inter-governmental debt payments; reparations; American technique in dealing with foreign nations. International economic relations and the Second World War. Prerequisite: Economics 313 and three semester hours of advanced economics. Credit value: Three semester hours. (Given in 1940-1941; to be omitted in 1941-1942.)

Business Administration

- 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 attained in both shorthand and typewriting. No credit otherwise. Prerequisite: Sophomore standing. Three shorthand lecture periods and six hours of typewriting practice per week. Laboratory fee, \$4.
- 311f. Theory and Practice of Accounting.—Principles of double-entry book-keeping and theories of general financial accounting. The analysis and recording of business transactions; adjusting and closing entries; financial statements; sole proprietorship accounting. Use of worksheets. Prerequisite: Sophomore standing. Two lecture hours and four laboratory hours per week. Laboratory fee, \$2. Credit value: Three semester hours.
- 314s. Theory and Practice of Accounting.—Business Administration 311 continued into a consideration of partnership accounting; corporation accounting; reserves and reserve funds; manufacturing accounts; asset valuation; practice set materials on both partnership and corporation technique. Prerequisite: Business Administration 311. Two lecture hours and four laboratory hours per week. Laboratory fee, \$2. Credit value: Three semester hours.
- 20. Business Letters and Report Writing.—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 or 12q, Business Administration 314, and the ability to type accurately. Credit value: Six semester hours. (Formerly was Business Administration 420.)
- 21. Advanced Stenography.—Training in advanced secretarial practice. Development of speed and accuracy in shorthand and typewriting. Character study and practice 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. Laboratory fee, \$4. Prerequisite: Business Administration 10 and 314. Credit value: Six semester hours. (Omitted in 1940-1941; to be offered in 1941-1942.)
- 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. (Omitted in 1940-1941; to be offered in 1941-1942.)
- 326f. Intermediate Accounting, First Course.—Classification and codification of accounts, forms, and contents of financial statements; theory involved in corporation accounting; actuarial accounting; accounting for consignments and installment sales; evaluation of investments; comparative statements; analysis

of working capital; statement of application of funds. Prerequisite: Business Administration 314. Credit value: Three semester hours. (Omitted in 1940-1941; to be offered in 1941-1942.)

327Ks. Intermediate Accounting, Second Course.—Theory involved in partnership accounting; venture accounts; accounting for receivership; parent and subsidiary accounting; consolidated balance sheets; foreign exchange accounting; estates and trusts; budgets; public accounts; bank accounting; and stock brokerage accounting. Prerequisite: Business Administration 326. Credit value: Three semester hours. (Omitted in 1940-1941; to be offered in 1941-1942.)

329]. 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 1940–1941; to be omitted in 1941–1942.)

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 1940–1941; to be omitted in 1941–1942.)

331]. Business and Government.—Government in a regulatory capacity and in a cooperative capacity; theories of constitutional protection; anti-trust laws; the control of unfair trade practices; regulation of security issues and security exchanges; railway regulation; the government as a credit granting institution. Settlement of labor disputes; social security. Prerequisite: Business Administration 314. Credit value: Three semester hours. (Omitted in 1940-1941; to be offered in 1941-1942.)

332]. 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 analysis; correlation. Prerquisite: Business Administration 314 and six semester hour of mathematics. Credit value: Three semester hours. Three lecture hours and three laboratory hours per week. Laboratory fee, \$2. May not be counted for credit in addition to Economics 329. (Formerly was Business Administration 432.)

333s. Advanced Statistics.—A review of the measures of central tendency with shortcuts; dispersion measurement technique; the theory of the normal curve and the expansion of the binomial; the theory of standard deviation interpretation and its relation to the fitting of curves; simple, multiple, linear, curvilinear, and partial correlation. Prerequisite: Business Administration 332 or 432. Credit value: Three semester hours. May not be counted for credit in addition to Economics 333. (Given in 1940-1941; to be omitted in 1941-1942.)

- 334]. 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. Filing practice. Designed for students intending to go into office work. Laboratory fee, \$2. Prerequisite: Business Administration 10 and 314. Credit value: Three semester hours. (Given in 1940–1941; to be omitted in 1941–1942.)
- 337s. Marketing.—The place of marketing in our domestic business system. Functions of marketing; the place of the middleman in the system; brief consideration of the wholesaler and the retailer. (Formerly Business Administration 437.) Prerequisite: Business Administration 314. Credit value: Three semester hours. (Given in 1940–1941; to be omitted in 1941–1942.)
- 34ls. 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; the Federal Reserve System; open market operations; specialized finance houses. Prerequisite: Business Administration 314. Credit value: Three semester hours. (Omitted in 1940–1941; to be offered in 1941–1942.) May not be counted for credit in addition to Economics 341.
- 345. Business Analysis and Forecasting.—Importance of forecasts in business management; possibilities and limitations in scientific predictions of commodity prices, sales volume, business profits, industrial production, industrial growth and decay, and security prices; a discussion of professional forecasting services; bases for business forecasts; causes of business fluctuations; short-term and long-term forecasts; practical forecasting problems. Prerequisite: Economics 313 or Business Administration 314. Credit value: Three semester hours. (Given in the Summer Session of 1940.)
- 3485. Latin-American Resources and Trade.—A study of the economic resources of the Latin-American nations; geographic resources; relations of topography to business enterprises; trade relations of the United States with the Latin-American nations. Productive conditions past and present in Mexico. Central America, Caribbean Lands, and South America. The probable future of trade relations between the United States and these Southern Hemisphere republics. Prerequisite: Business Administration 314. Credit value: Three semester hours. (Given in 1940–1941; to be omitted in 1941–1942.)
- 350s. Introduction to Foreign Trade.—Principles of international movements of economic goods; the protective tariff and free trade controversy; the control of raw materials; techniques in shipments of physical commodities; financing transactions. Prerequisite: Business Administration 314. Credit value: Three semester hours. (Omitted in 1940–1941; to be offered in 1941–1942.) May not be counted for credit in addition to Economics 350.
- 357f. Investments.—Investment principles, investment banking, security flotation, and investment analysis, descriptions of various types of securities,

including rails, industrials, utilities, governments, and others; technique of stock-market trading; investment mathematics. Prerequisite: Business Administration 314. Credit value: Three semester hours. (Given in 1940-1941; to be omitted in 1941-1942.)

358]. Life Insurance.—A study of the principles underlying group risk absorption; rate making: "loading"; types of risk carriers; term insurance; the endowment; annuities; disability and accidental death benefits. Organization and administration of insurance carriers. Government regulation and taxation of insurance companies. Prerequisite: Business Administration 314. Credit value: Three semester hours. (Given in 1940-1941; to be omitted in 1941-1942.)

EDUCATION

PROFESSOR PUCKETT; ASSOCIATE PROFESSOR AGEE; ASSISTANT PROFESSOR McCuskey; Instructor Reynolds

This program is intended to provide opportunity for the prospective teacher to obtain (a) orientation in the general field of education, (b) an over-view of the fundamental principles and philosophy of the elementary or secondary schools, and (c) specific training in the technique of instruction in the field or subject which is selected. Students who are planning to teach in the secondary schools are advised to take Plan II under the Education major. Students who are planning to teach in the elementary schools are advised to take Plan III under the Education major.

General

301/s. 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.

305/s. 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. (Given in 1940-1941; to be omitted thereafter.)

319f. Public Health Education.—The study of the functions, organization, and administration of public health agencies. Lectures, demonstrations, and field trips. Prerequisite: Sophomore standing or permission of instructor. Credit value: Three semester hours. (Given in Summer Session, 1940.)

332f. Problems in Modern Education.—A unit course dealing intensively with needed educational readjustments and with the possible applications of current research and experimentation. The units to be studied will be determined by the needs of the class. Prerequisite: Education 314 and 318, or 316 and 317. Credit value: Three semester hours. (Given in Summer Session, 1940; omitted in 1940-1941; to be offered in 1941-1942.)

- 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: Education 314 and 318, or 316 and 317. Credit value: Three semester hours.
- 340f. The Administration and Supervision of Extracurricular Activities in the Modern School.—This course deals with the purposes and principles of extracurricular activities in the school, with special emphasis on types of activities, organizations and administration of the program, and principles of supervision. Prerequisite: Education 314 and 318, or 316 and 317. Credit value: Three semester hours. (Given in 1940-1941; to be omitted in 1941-1942.)
- 341s. Principles in 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: Education 314 and 318, or 316 and 317. Credit value: Three semester hours.
- 344s. Recent Trends in American Education.—The period from the Civil War to the present time will be considered. Movements which have been important in the development of American education will receive major attention. The work of the NEA, various agencies of the federal government, of institutions, of leaders, will be reviewed and analyzed. Prerequisite: Education 314 and 318, or 316 and 317. Credit value: Three semester hours.
- 345Ts. Mental Health Education.—Study of the principles and techniques of positive mental hygiene in its application to the developing child. Prerequisite: Education 314 and 318, or 316 and 317. Credit value: Three semester hours. (Given in Summer Session, 1940.)
- 350Ts. Psychology of Individual Differences.—Basic psychological factors in individual differences, with special emphasis upon such topics as grouping, special abilities and disabilities, and the psychology of gifted and subnormal children. Prerequisite: Education 314 and 318, or 316 and 317. Credit value: Three semester hours,
- 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 318, or 316 and 317. Credit value: Three semester hours. (Omitted in 1940–1941; to be offered in 1941–1942.)
- 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; the historical development of modern democratic concepts of education. Prerequisite: Education 314 and 318, or 316 and 317. Credit value: requisite: Education 301. Credit value: Three semester hours.

361s. Seminar in Education.—Prerequisite: Six semester hours of advanced courses in Education. Credit value: Three semester hours.

398-98.—Thesis Course for the Master's Degree.—Prerequisite: Twelve semester hours of advanced courses in Education and graduate standing, Credit value: For 398, three semester hours; for 98, six semester hours.

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 Sophomore standing. Credit value: Three semester hours.

318s. Introduction to Elementary Education.—Consideration will be given to the educational principles underlying present trends and practices in the elementary school. Special attention will be given to guiding learning through activities of children. Prerequisite: Education 301 and Sophomore standing. Credit value: Three semester hours.

320s. Children's Literature.—A knowledge of children's literature is one primary aim of the course; the other is the administration of the recreational reading program and its relation to the content subjects. Special reading may be done at the level in which the student is most interested. Prerequisite: Education 314 and 318, or 316 and 317. Credit value: Three semester hours.

325Kf. Conflicting Issues in Modern Elementary Education.—A seminar dealing with significant issues in current elementary theory, and practice. Historical and philosophical implications will be developed by means of readings, class discussions, and term reports. Prerequisite: Education 314 and 318. Credit value: Three semester hours.

28. Observation and Practice Teaching.—This course will begin with classes, readings, and directed observation, and will culminate in responsible planning and teaching. A minimum of five hours weekly in the elementary classroom will be required each semester, more time being assigned if necessary. Schedules must be planned to include two consecutive hours between 8 and 3. Prerequisite: Education 314 and 318. Credit value: Six semester hours.

331Tf. Methods and Materials of Instruction in the Elementary School.—This will be an intensive study of methods for the elementary schools, with emphasis centered upon reading, social studies, arithmetic, and science. It will include observations, as well as a survey of the literature in each field. Two lectures and three laboratory hours per week. Prerequisite: Education 314 and 318. Credit value: Three semester hours. (Given in Summer Session, 1940; omitted in 1940-1941; to be offered in 1941-1942.)

348f. Teaching Arithmetic and Science in the Primary Grades.—First half: Curriculum content in arithmetic with modern methods of teaching the subject in the first three grades. Second half: Building a background for teaching science in the primary grades, looking forward toward its inclusion in the

curriculum. Prerequisite: Education 314 and 318. Credit value: Three semester hours. (Given in 1940-1941; to be omitted in 1941-1942.)

349s. 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. Credit value: Three semester hours. (Given in 1940–1941; to be omitted in 1941–1942.)

353f. 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. Credit value: Three semester hours. (Given in 1940–1941; to be omitted in 1941–1942.)

360s. Work Shop in Social Studies in the Elementary School.—Lectures, discussions, intensive laboratory work in curriculum production with emphasis upon the selection and organization of content and materials; and related teaching techniques. Prerequisite: Six semester hours of advanced courses in Education. Credit value: Three semester hours. Thursdays, 4 to 6 o'clock. Four hours of laboratory to be arranged by instructor. (Given in 1940–1941; to be omitted in 1941–1942.)

High School

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 Sophomore standing. Credit value: Three semester hours.

317s. An Introduction to High-School Teaching.—Basic principles of high-school teaching and high-school management will be considered. Prerequisite: Education 301 and Sophomore standing. Credit value: Three semester hours.

322f. Organization and Teaching of Mathematics and Science in the Secondary School.—Prerequisite: Six semester hours of Science; six semester hours of Mathematics; and Education 316 and 317. Credit value: Three semester hours. (Omitted in 1940-1941; to be offered in 1941-1942.)

323f. Teachers' Course in Modern Languages.—Methods of teaching modern languages in secondary schools. Prerequisite: Course 12 in a language; and Education 316 and 317. Credit value: Three semester hours. (Omitted in 1940–1941; to be offered in 1941–1942.)

326s. Teachers' Course in English.—Methods of teaching English in secondary schools. Prerequisite: English 12; and Education 316 and 317. Credit

value: Three semester hours. (Given in 1940-1941; to be omitted in 1941-1942.)

27. Student-Teaching in High School.—A study of the principles of teaching, observation of class work, construction of lesson plans, and teaching under supervision. Ordinarily, one hour daily for five days a week will be required each semester, but students are expected to have two consecutive hours, between 9 and 3 o'clock throughout the week, in order to facilitate the making of teaching assignments. Required of all candidates for a permanent high-school certificate. Prerequisite: Education 316 and 317. Credit value: Six semester hours

329]. Teachers' Course in the Social Studies.—Methods of teaching the social studies in the secondary schools. Prerequisite: Twelve semester hours in History; and Education 316 and 317. Credit value: Three semester hours. (Given in 1940-1941; to be omitted in 1941-1942.)

342f. Evolution of the Secondary School.—The historical development of the secondary school in America will be traced in this course, with some emphasis on European background. The Latin Grammar school, the Academy, and the High School will be studied in the order named. Attention will be given to economic and religious development which may have been factors in the secondary school development; also, a brief survey of the contributions of educational leaders will be made. Prerequisite: Education 316 and 318. Credit value: Three semester hours.

ENGINEERING, DRAWING AND AVIATION

PROFESSOR KIDD; ASSOCIATE PROFESSOR THOMAS; ASSISTANT PROFESSOR DECKER;
INSTRUCTORS STEEN, BARNES

Engineering

410s. Elements of Electrical Engineering.—Direct current electric and magnetic circuits; the direct current generator; measuring instruments; electrostatics; energy relations; transients; and conduction through gases. Prerequisite: Physics 12a, and registration in Mathematics 13b. Three lectures and three laboratory hours a week. Laboratory fee, \$4. Credit value: Four semester hours.

312]. 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 a week. Laboratory fee, \$2. Credit value: Three semester hours. (Given in 1940 and 1941, but not thereafter).

412f. Elements of Mechanism.—A study of the laws which govern the motion of machine parts; graphic analyses are made of various mechanisms, the motions produced, and the velocities and accelerations of the parts; a

study of linkages, sliding and rolling contact, gears, and gear teeth, wheels in trains, cams, belts, ropes and chains, differential motion, and pulley blocks. Prerequisite: Mathematics 803, Drawing 302, and Physics 1. Two lectures and six laboratory hours a week. Laboratory fee, \$4. Credit value: Four semester hours.

313s. Plane Surveying.—The theory of plane surveying, including the care and adjustment of instruments; land surveying; traverses; leveling; determination of meridian; topographic surveying; mapping; the different systems of note-keeping; the usual computations used in plane surveying; and an elementary discussion of precision. Prerequisite: Mathematics 803, and Drawing 302. Three lectures a week. Credit value: Three semester hours.

414. Field Surveying.—Summer work; practical field course covering the topics outlined in Engineering 313. Accurate and rapid work will be insisted upon. Prerequisite: Engineering 313. Eight hours daily for four weeks. (Section No. 1 from June 16 to July 12, inclusive; Section No. 2 from July 14 to August 9, inclusive. Students must begin work on the day the field work opens. Deposit: \$7. Laboratory fee, \$4. Credit value: Four semester hours.

315f. Technical Mechanics.—Concurrent, parallel, and nonconcurrent 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. (Given in 1940 and 1941, but not thereafter.)

415. Applied Mechanics.—Craphical and analytical study of coplanar and noncoplanar, concurrent, parallel and nonconcurrent forces; friction; center of gravity; moments of inertia; radius of gyration; kinetics of rigid bodies; work, energy, and power; impulse, and momentum. Prerequisite: Physics 1, and Mathematics 13a in advance or concurrently. Three lectures and three laboratory hours a week. Laboratory fee, \$4. Credit value: Four semester hours. (Given in 1941 and 1942.)

322s. Mine and Route 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 a week. Laboratory fee, \$2. Credit value: Three semester hours. (To be offered in 1941 and 1942; previously given as Mining 322.)

224. Mine Surveying: Field Work.—A 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 while on this trip. Prerequisite: Engineering 322. Eight hours daily for two weeks, immediately following the close of the spring semester. Laboratory fee, \$2. Credit value: Two semester hours. (To be offered during the summer of 1942; was previously given as Mining 224.)

431s. Electrical Circuits and Machines.—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; machine characteristics; motor starting and controlling devices; distribution systems; protective devices; motor applications; electrical hoisting systems; and power factor correction. Prerequisite: Physics 812, and Mathematics 13. Three lectures and three laboratory hours a week. 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; sheer diagram; determination of stresses in various types of roof and bridge trusses; complete designs in steel and timber; comparisons as to weight and costs. Prerequisite: Drawing 302. Mathematics 13, and Physics 12 or 812. Three lectures and three laboratory hours. Credit value: Eight semester hours. (Given in 1940 and 1941, but not thereafter.)

533s. Applied Mechanics and Graphic Statics.—Coplanar, concurrent, parallel, and nonconcurrent forces; concurrent, parallel, and nonparallel forces in space; friction; centroids and centers of gravity; moments of inertia, and radius of gyration; kinematics of a particle; kinetics of rigid bodies; rotation of rigid bodies; any plane motion of rigid bodies; work, energy, and power. Exercises in the laboratory will include problems in kinematics, Bow's notation, the funicular polygon; and the determination of stresses in the various types of roof and bridge trusses. Prerequisite: Drawing 302, Mathematics 13 and Physics 12 or 812. Three lectures and six laboratory hours a week. Laboratory fee, \$4. Credit value: Five semester hours. (To be offered in 1941 and 1942.)

434f. Strength of Materials.—Stresses and strains, in tension, and in shear; riveted and welded joints; torsion of shafts; shear and moment in beams; stresses in beams; deflection of beams; fixed and continuous beams; beams of two materials; beams of constant strength; resilience; combined stresses; Euler's, Rankine's and the straight-line column formulae; columns in general; deflection of beams by area moment method; and curved beams and hooks. Laboratory tests will be made for tensile and compressive stresses in wood, iron, steel, and cement; bending and torsional stresses will be determined on specimens where practical. Prerequisite: Engineering 533. Three lectures and three laboratory hours a week. Laboratory fee, \$4. Credit value: Four semester hours. (To be offered in 1941 and 1942.)

335s. Masonry and Reinforced Concrete.—Lectures on natural stone, building stone, brick, mortars, and cements. Lectures, recitations, and problems pertaining to reinforced concrete construction, including strength of concrete in compression; reinforcing steel in tension; percentage of steel required; bond required in reinforcing bars; diagonal tension; designing of columns,

beams, and slabs; and discussions relating to eccentric loading. Prerequisite: Engineering 434. Three lectures a week. Credit value: Three semester hours. (To be offered in 1941 and 1942.)

350s. Steam Power Plants.—The fundamental equations of gases and their applications to the steam engine; the heating values of different fuels; the construction and operation of steam boilers; boiler feed pumps; different types of steam engine as regards speed, valves, steam consumption, comparative cost, and relative economy; adjustments of valves, and determination of horse power by the use of the indicator; steam turbines. Prerequisite: Mathematics 13, and Physics 12 or 812. Three lectures a week. Credit value: Three semester hours.

354f. Hydraulics.—Brief course of hydraulics; fluids in motion; flow of liquids through pipes, orifices, and over weirs; fluid friction and loss of head; Bernoulli's theorem; flow of water in canals and rivers; Kutter's formula; and graphical methods. Prerequisite: Physics 12 or 812, and Mathematics 13. Three lectures a week. Credit value: Three semester hours.

Drawing

3011. Engineering Drawing.—For all engineering students. Freehand lettering, geometrical construction, orthographic projection, auxiliary views, sectional views, dimensioning, working drawings, and pictorial methods. Two one-half hour discussions and eight hours of supervised drawing a week. Laboratory fee, \$2. Credit value: Three semester hours.

301s. Engineering Drawing .- A repetition of 301f.

302s. Descriptive Geometry.—Principal, auxiliary, and oblique views; straight and curved line problems; planes; intersection and development of surfaces; single-curved, warped, and double-curved surfaces; mining problems; perspective drawings. Prerequisite: Drawing 301. Two one-half hour discussions and eight hours of supervised drawing a week. Laboratory fee, \$2. Credit value: Three semester hours.

Aviation

311. Civil Aeronautics.—This course is to conform in all respects to the outline as given by the Civil Aeronautics Administration for the Private (Preliminary), Civilian Pilot Training Program. Half of the course will consist of lectures, quizzes, and problems in Air Navigation, while the other half will be devoted to a study of Meteorology. Prerequisite: Sophomore standing, or permission of the Coördinator of Civilian Pilot Training. A total of 48 lectures. Credit value: Three semester hours, elective credit.

621. Civil Aeronautics.—This course is to conform in all respects to the outline as given by the Civil Aeronautics Administration for the Secondary (Restricted Commercial), Civilian Pilot Training Program. Lectures, problems, demonstrations, and quizzes will be given in the following subjects:

Aerodynamics; Aircraft; Aircraft Power Plants; and Air Navigation. Prerequisite: Aeronautics 311, a valid Private Pilot Certificate, and permission of the Coördinator of the Civilian Pilot Training. A total of 108 lectures. Credit value: Six semester hours, elective credit.

ENGLISH AND PUBLIC SPEAKING

PROFESSOR SONNICHSEN; ASSOCIATE PROFESSOR ZIMMERMAN; ASSISTANT PROFESSORS LANGSTON, MOSES, EGG; INSTRUCTORS BALL, BOUNDS, JAMES, PONSFORD; PART-TIME INSTRUCTORS HOWELL, KING, NEALON

English

For the degree of Bachelor of Arts twelve semester hours in English are required: namely 1 and 12 or 12Q; English la is prerequisite to all other courses in English; English 12 or 12Q, to all other courses in English literature. Students expecting to do advanced work in English are advised to take courses in French or German, in history, and in philosophy.

1. Rhetoric and English Composition.—Study of the principles of good writing; outlining; analysis and discussion of typical prose selections; weekly themes; collateral reading. Prescribed for freshmen. Credit value: Six semester hours.

las. Rhetoric and English Composition.—Repetition of the first semester of English 1.

310/s. 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 or 12Q is prerequisite to all other courses in English literature. Credit value: Six semester hours.

12as. Outline History of English Literature.—Repetition of the first semester of English 12. Recommended for English majors.

12Q. English and American Literature.—A course designed to replace English 12 for students not expecting to specialize in English. Study of significant specimens of prose and poetry with the object of helping the student to orient himself in the world of today through a study of its literature. A good deal of supplementary reading, frequent conferences with the instructor, and several written reports will be required. The work will include the study of significant specimens of prose and poetry from the sixteenth, seventeenth, eighteenth, and nineteenth centuries with emphasis on the social values of the material and its importance in leading up to the literature of the present day.

Prerequisite: English 1. Credit value: Six semester hours. Not recommended for English majors.

- 320f. 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 or 12Q. Credit value: Three semester hours. (To be offered in Long Session, 1941-1942; given in Summer Session, 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 12 or 12Q. Credit value: Three semester hours. (Given in Summer Session, 1940; to be offered in Long Session, 1941-1942.)
- 322f. Victorian Poetry. Consideration of the poetic works of Browning primarily, and study of such noteworthy minor poets as Arnold, Clough, James Thompson, and others. Prerequisite: English 12 or 12Q. Credit value: Three semester hours. (To be offered in Long Session, 1941-1942.)
- 323s. Victorian Poetry.—Consideration of the poetic works of Tennyson primarily, and study of such noteworthy minor poets as Swinburne, Morris, D. G. Rossetti, Christina Rossetti, and others. Prerequisite: English 12 or 12Q. Credit value: Three semester hours. (Omitted in 1940-1941; to be offered in Long Session, 1941-1942.)
- 325]. Creative Writing.—Prerequisite: English 12 or 12Q with a grade of at least B. Credit value: Three semester hours. May be taken a second time for additional credit. (Given in Long Session, 1940-1941; to be omitted in 1941-1942.)
- 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 or 12Q. Credit value: Three semester hours. (To be offered in Long Session, 1941-1942; omitted in 1940-1941.)
- 328s. An Outline History of the English Novel.—A continuation of English 327 with study of typical works of Dickens, Thackeray, George Eliot, Hardy, and Meredith. Prerequisite: English 327. Credit value: Three semester hours. (Omitted in 1940-1941; to be offered in Long Session, 1941-1942.)
- 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 or 12Q. Credit value: Three semester hours. (Given in the Summer Session, 1940.)
- 330s. English Romantic Poetry, the Later Phase.—Consideration of the work of Byron, Shelley, Keats, and some of their contemporaries. Prerequisite: English 12 or 12Q. Credit value: Three semester hours. (Given in the Summer Session, 1940.)
- 331f. The Drama in England since 1660.—A study of the representative plays of the Restoration Age, of the eighteenth and nineteenth centuries, and

of such modern English playwrights as Jones, Pinero, Barker, St. John Hankin, Shaw, Coward, etc. Prerequisite: English 12 or 12Q. Credit value: Three semester hours. (Given in Long Session, 1940-1941; to be omitted in 1941-1942.)

332s. The Development of the American Drama.—A study of the drama of the Colonial and the Revolutionary Periods. Study of the development of the drama to modern times including such modern playwrights as the Mackayes, Thomas, Sheldon, Kaufman and Connelly, Crothers, Hughes, Davis, Anderson, and O'Neill. Prerequisite: English 12 or 12Q. Credit value: Three semester hours. (Given in the Long Session, 1940-1941; to be omitted in 1941-1942.)

334f. Contemporary Poetry.—Prerequisite: English 12 or 12Q. Credit value: Three semester hours.

335s. Contemporary Prose.—Prerequisite: English 12 or 12Q. Credit value: Three semester hours.

336f. American Literature.—A study of the chief American poets and prose writers of the Revolutionary period and the early nineteenth century. Pre-requisite: English 12 or 12Q. Credit value: Three semester hours. (Given in the Long Session, 1940-1941; to be omitted in 1941-1942.)

337s. American Literature.—A study of the most important American poets and prose writers from the Civil War to the present. Prerequisite: English 12 or 12Q. Credit value: Three semester hours. (Given in the Long Session, 1940-1941; to be omitted in 1941-1942.)

339]. 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 or 12Q. Credit value: Three semester hours. (Given in the Long Session, 1940-1941; to be omitted in 1941-1942.)

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 or 12Q. Credit value: Three semester hours. (Given in the Long Session, 1940-1941; to be omitted in 1941-1942.)

341s. 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 or 12Q. Credit value: Three semester hours. (To be offered in Long Session, 1941-1942.)

342]. 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 or 12Q. Credit value: Three semester hours. (Given in 1941-1942; to be offered in Long Session, 1941-1942.)

- 353f. Prose of the Renaissance and Reformation.—A study of the beginnings of modern English literature in its relation to the political, social, and cultural ideals of the Renaissance. Prerequisite: English 12 or 12Q. Credit value: Three semester hours. (Omitted in 1940–1941; to be offered in the Long Session, 1941–1942.)
- 354s. Poetry of the Renaissance and Reformation.—A study of the beginnings of modern English literature in its relation to the political, social, and cultural ideals of the Renaissance. Prerequisite: English 12 or 12Q. Credit value: Three semester hours. (Omitted in 1940-1941; to be offered in Long Session, 1941-1942.)
- 355f. The American Novel.—A careful study of representative American novels and novelists from 1850 to the present. Prerequisite: English 12 or 12Q. Credit value: Three semester hours. (Omitted in 1940-1941; to be offered in the Long Session, 1941-1942.)
- 358/. The English Language.—A course designed to give an understanding of the growth, structure, and relationships of the English language with special emphasis on the development of modern English. Attention will be given to the theory of language and its function in human life and progress; the great language groups; developments from the Anglo-Saxon period to modern times. Prerequisite: English 12 or 12Q. Credit value: Three semester hours. (Given in Long Session, 1940–1941; to be omitted in 1941–1942)
- 359s. A Continuation of English 358.—English in recent times. Dialects; usage; influence of scientific developments, war, radio, etc.; foreign elements; word building; other topics leading to an understanding and appreciation of the students' native tongue. Prerequisite: English 358. Credit value: Three semester hours. (Given in Long Session 1940-1941; to be omitted in 1941-1942.)
- 398-98. Thesis Course for Master's Degree.—Prerequisite: Twelve semester hours of advanced courses in history; graduate standing. Confer with the chairman of the department immediately after registration. Credit value: For 398, three semester hours; for 98, six semester hours.

Public Speaking

- 301/s. 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.
- 305/s. Principles of Speech.—A study of the theory of expression, exercises in improving stage presence; practice in speaking with special reference to distinct, direct, and convincing delivery. Speech material and composition emphasized. Prerequisite: Public Speaking 301. Credit value: Three semester hours.
- 312f. Play Production.—Elementary principles of play production, including acting, staging, lighting, and make-up; practice in producing radio

and stage plays. A study of the emotional basis of acting; the body as an expressive agent. Lectures, reports, and assigned readings in the literature of the drama and the theatre. A practical course to prepare students to produce plays in schools and communities. Prerequisite: Sophomore standing or six semester hours of Public Speaking. Credit value: Three semester hours.

313s. Play Production.—A continuation of Public Speaking 312, with emphasis on casting, rehearsing, and directing. Prerequisite: Public Speaking 312. Credit value: Three semester hours.

320s. Oral Interpretation.—This course is designed to develop an adequate mental and emotional response to the meaning of literature. The necessary attention to the sound and meaning of words should lead to improvement in voice, pronunciation, and general effectiveness in speech. Emphasis is placed on objective speaking. Choir speaking as well as individual recital work will be included. Prerequisite: Junior standing including six semester hours of Public Speaking. Credit value: Three semester hours.

321]. Radio Speech.—A course in the theory and practice of radio writing and speaking with special attention to radio drama. Prerequisite: Six semester hours in Public Speaking and Junior standing. Credit value: Three semester hours.

GEOLOGY

PROFESSOR QUINN; ASSOCIATE PROFESSOR NELSON; INSTRUCTOR STRAIN

301]. Physical Geology.—A critical study of the principles of physiography and dynamic and structural geology. One additional lecture hour each week will be required of students registering in mining engineering options and science majors. Two hours lecture and three hours of laboratory demonstration or field work. Laboratory fee, \$2. Credit value: Three semester hours.

302s. Historical Geology.—Critical study of the principles of stratigraphy, paleogeography and organic developments. One additional lecture hour each week will be required of students registering in mining engineering options and science majors. Prerequisite: Geology 301. Two hours lecture and three hours of laboratory demonstration or field work. Laboratory fee, \$2. Credit value: Three semester hours.

316f. Mineralogy.—Crystallography and blowpipe analysis; a study of the crystallography, chemical and physical properties of minerals and mineral determination by blowpipe methods. Classification of minerals. Prerequisite: Chemistry 1 (Chemistry 801 for engineering students). One lecture and six hours of laboratory work. Laboratory fee, \$2. Credit value: Three semester hours.

317s and 217s. Mineralogy.—Determinative mineralogy; a continuation of 316f. Largely devoted to the identification of minerals by physical characteristics. Prerequisite: Geology 316. One lecture and six hours of laboratory work per week for 317. 217s is open only to engineering students who will

receive six hours of laboratory work. Laboratory fee, \$2. Credit value: Two semester hours, for 217; three semester hours for 317.

- 418f. Invertebrate Paleontology.—A systematic study of the structure and classification of the important invertebrates together with their development and geological significance. Prerequisite: Geology 301 and 302. Two lectures and six laboratory hours. Laboratory fee, \$4. Credit value: Four semester hours.
- 419s. Paleontological Stratigraphy.—A comprehensive study of the stratigraphy of North America with special emphasis on that of West Texas and the Southwest. Prerequisite: Geology 418. Two lectures and six laboratory hours. Laboratory fee, \$4. The last two hours of this course count as advanced. Credit value: Four semester hours.
- 421f. 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 316 and 217 for engineering students; 316 and 317 for others; and Geology 302. Three lectures and three laboratory hours. Laboratory fee, \$2. Credit value: Four semester hours.
- 322s. General Economic Geology.—A general consideration of economic occurrences of mineral deposits and rocks with considerable attention given to those of Texas and the Southwest. Prerequisite: Geology 217 or 317. Credit value: Three semester hours.
- 427s. Petrology and Petrography.—The determination, origin, and subsequent history of minerals and rocks as revealed in mineral grains and thin sections by the petrographic microscope. Prerequisite: Geology 421 in advance or concurrently. Two lectures and six laboratory hours. Laboratory fee, \$4. Credit value: Four semester hours. (Omitted in 1940–1941; to be offered in Long Session, 1941–1942.)
- 361s. 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 advanced or concurrently and 322. Two lectures and three laboratory hours. Laboratory fee, \$2. Credit value: Three semester hours. (Omitted in 1940–1941; to be offered in Long Session 1941–1942.)
- 463s. 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 421. Three lectures and three laboratory hours. Laboratory fee, \$4. Credit value: Four semester hours. (Given in Long Session in 1940-1941; to be omitted in 1941-1942.)

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

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

Geography

303s. Elements of Geography.—A study of the major geographic realms emphasizing the relation of man to the various natural elements of his environment. Prerequisite: Geology 301. Two hours lecture and three hours of laboratory demonstration or field work. This course together with Geology 301 may be used to satisfy six semester hours of the science requirement for the Bachelor of Arts Degree, but may not be used as a prerequisite for any other course in Geology. Laboratory fee, \$2. Credit value: Three semester hours.

HISTORY, GOVERNMENT, AND SOCIOLOGY

PROFESSOR WALLER; ASSISTANT PROFESSORS PORTER, 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.
- 312]. The Ancient World.—A survey of the ancient civilizations—Babylonian, Chaldean, Assyrian, Persian, and Egyptian; more intensive study of the Greek history with its art and culture and its spread over the Mediterranean world; Roman history with its system of law, its early beginnings and expansion over Europe, rise and decline of the Roman Empire. Prerequisite: Sophomore standing or six semester hours in history. Credit value: Three semester hours.

313s. Medieval Europe.—Renaissance and Reformation; cultural development of the Middle Ages; social, artistic, and economic phases of the Renaissance; development of feudalism and rise of city-states; causes and results of the Reformation; period of discovery. Prerequisite: Sophomore standing or six semester hours in history. Credit value: Three semester hours.

315]. 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.

317s. A General Survey of the History of Texas.—Prerequisite: Six hours of history or Sophomore standing. Credit value: Three semester hours.

323/. 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 1941-1942.)

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 1941–1942.)

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. (Given in 1940-1941; to be omitted in 1941-1942.)

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. (Given in 1940–1941; to be omitted in 1941–1942.)

335f. 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. (Omitted in 1940-1941; to be offered in 1941-1942.)

336s. History of the United States, 1850-1865.—Slavery controversy; manifest destiny; party history, breakdown of the Whigs, rise of the Re-

publican 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. (Omitted in 1940-1941; to be offered in 1941-1942.)

347]. 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.

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.

353f. 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 1940-1941; to be omitted in 1941-1942.)

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 Summer, 1940; to be omitted in 1941-1942.)

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 Summer, 1940; to be offered in 1941-1942.)

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 Summer, 1940; to be offered in 1941–1942.)

398-98. Thesis Course for the Master's Degree.—Prerequisite: Twelve semester hours of advanced courses in history; graduate standing. Confer with the departmental head immediately after registration. Credit value: For 398, three semester hours; for 98, six semester hours.

Government

310/s and 10. American Government.—The government of the United States—national, state, and local—with special emphasis upon the Constitution of the United States and of Texas. Fulfills the legislative requirement of a course on the Constitutions of the United States and of Texas.

Prerequisite: Sophomore standing. Credit value: For 310, three semester hours; for 10, six semester hours. (Government 310 satisfies the requirement of three semester hours of Texas constitution.)

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. (Omitted in 1940–1941; to be offered in 1941–1942.)

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. (Omitted in 1940-1941; to be given in 1941-1942.)

323f. The Governments of England and the British Commonwealth 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 Summer Session, 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 Summer Session, 1940).

343f. The Foreign Policies of the United States.—The historical development and present organization of the Department of State and of the Foreign Service; the nature of the foreign relations power and the conduct and control of American foreign relations. Prerequisite: Government 310 and 311, or 10. Credit value: Three semester hours. (Given in 1940-1941; to be omitted in 1941-1942.)

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 1940–1941; to be omitted in 1941–1942.)

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.

311/s. 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.

320]. Fields of Social Work.—A survey of the various fields of social work now operating, both Federal and private in sponsorship, with particular attention to those organized on regional and national bases; and an examination of the methods used in the various fields considered. Prerequisite: Sociology 310 and 311: Credit value: Three semester hours.

321s. Public Welfare.—An examination of the subject of public welfare, including its historical and philosophical development up to the present time, a survey of recent trends as embodied in the Social Security Board program, and a brief study in selected case work methods. Prerequisite: Sociology 310 and 311. Credit value: Three semester hours.

345]. 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. (Omitted in 1940-1941; to be offered in 1941-1942.)

347]. 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 1940-1941; to be omitted in 1941-1942.)

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. (Given in 1940-1941; to be omitted in 1941-1942.)

349s. 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 1941–1942.)

JOURNALISM

INSTRUCTORS BOUNDS, WILLIAMS

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.

313]. 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.

315s. Basic Advertising.—Study of the mechanics of the writing of advertisements, layouts, copy, illustrations, etc. Use of color, cartoons, line drawings vs. engravings. Study of the force of words in writing of copy. Prerequisite: Sophomore standing. Credit value: Three semester hours.

316f. Comparative Journalism.—Study of foreign and American publications. Prerequisite: English 1 and Sophomore standing. Credit value: Three semester hours. (To be offered in Long Session, 1941-1942.)

319s. Radio News Processing.—The preparation of local and wire service news for radio news broadcasting and interpretation. Prerequisite: English 1 and Sophomore standing. Credit value: Three semester hours (Given in the Long Session, 1940-1941.)

322]. 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.

324s. 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. (To be offered in the Long Session, 1941-1942.)

325f. Small Newspaper Production and Management.—Advanced study of newspaper technique and of the problems of newspaper management. Detailed study of makeup, advertising problems, news policies, and business management, leading to a summer interneship on Texas newspapers. Prerequisite: Journalism 12. Credit value: Three semester hours. (Given in the Long Session, 1940-1941.)

326s. Advertising, Copywriting and Special Layouts.—Study of technique of copy writing and layout, direct mail advertising, circulars and department store layouts. Study of marketing and media. Prerequisite: Journalism 12 and Journalism 315. Credit value: Three semester hours (Given in the Long Session, 1940-1941.)

327s. Promotion and Public Relations.—Detailed study of propaganda methods and technique, exploitation, and marketing via news channels. Radio publicity methods. Special emphasis on public relations, direction in industrial, commercial and retailing fields. Prerequisite: Journalism 12 and Journalism 315. Credit value: Three semester hours.

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329f. Principles of Typography.—Study of type, printing technique and methods, and history of printing, with emphasis on practical problems in typography that confront the newspaper editor and advertising manager. Lectures and laboratory practice. Prerequisite: Journalism 12. Credit value: Three semester hours. (To be offered in the Long Session, 1941-1942.)

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.

341s. Pictorial Journalism.—The development of modern day methods of photography, and its uses in the newspaper and magazine fields today. A study of picture editing, news cameras, covering picture assignments, photoengraving, elements of picture layouts. Prerequisite: Journalism 12. (To be offered in the Long Session, 1941–1942.)

MATHEMATICS AND PHYSICS

PROFESSOR KNAPP; ASSOCIATE PROFESSOR DURKEE; ASSISTANT PROFESSOR SCHWID; INSTRUCTORS BARNES, CAMP, LEECH, LILES, RESLEY

Mathematics

Except as indicated in item six under degree requirements, six semester hours of Mathematics are required for the degree of Bachlor of Arts. 304 and either 309 or 307 may be used to satisfy this requirement. Students who wish a more complete course in Mathematics and students who plan to major or minor in Mathematics or in Physics, should take 803 in place of the courses mentioned above. Students who plan to major or minor in other sciences should see the descriptions of their majors and minors for Mathematics requirements. Students planning to major or minor in Mathematics or in Physics, should take Mathematics 208 in one of the semesters of the freshman year unless solid geometry is offered for entrance.

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

304/s. 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

MINING AND METALLURGY

PROFESSORS GRAHAM, SEAMON; ASSOCIATE PROFESSOR THOMAS;
ASSISTANT PROFESSOR JENNESS

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. (Given in Long Session 1939–1940; omitted in Long Session, 1940–1941.)
- 321f. Mining Methods.—Continuation of Mining 310. Prerequisite: Mining 310. Three lectures. Credit value: Three semester hours, (Given in Long Session 1940-1941; omitted in Long Session, 1941-1942.)
- 521]. Mining Methods.—A comprehensive study of mining methods, including prospecting, development, exploitation, earth and rock excavation, explosives, tunneling, shaft sinking, timbering, boring, and underground transport, and hoisting. Prerequisite: Chemistry 311, Geology 316, Drawing 302, and Physics 812. Five lectures. Credit value: Five semester hours. (To be offered in Long Session 1941–1942, replacing Mining 310s and Mining 321f.)
- 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. (Given in Long Session, 1940-1941; to be offered in Long Session, 1941-1942 as Engineering 322.
- 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. (Given in Long Session, 1940-1941; to be offered in Long Session as Engineering 224.)
- 231s. Mining Hygiene.—Lectures and recitations. Prevention of communicable diseases, personal hygiene, public health, food, air, water, soil, ventilation, and heating, sewage disposal, garbage disposal, disinfection, camp sanitation, mine sanitation, prevention of industrial diseases. The course is supplemented by field work in sanitary surveys, and drawing of

apparatus. The course also includes work in first aid and rescue work. Prerequisite: Junior standing. Two lectures. Credit value: Two semester hours.

260]. Mine Plant.—A detailed study of underground transport, hoisting plant, skips and cages, compressed air plant, rock drills, mechanical ventilation, and drainage. Emphasis is placed on calculation of problems in connection with choice of equipment. Prerequisite: Senior standing. Two lectures. Credit value: Two semester hours.

261s. Mine Plant.—A continuation of the work given in Mining 260. The laboratory is devoted to a practical study of rock drills and drilling methods, and ventilation. Prerequisite: Mining 260. One lecture and three laboratory hours. Laboratory fee, \$2. Credit value: Two semester hours.

262s. Mine Plant Design.—The student is required, from a sampled mine or drilling exploration, to determine the value of the property, select a mining system, choose suitable equipment, and write a detailed report Prerequisite: Mining 260, and Mining 267 or Mining 367. Six laboratory hours. Laboratory fee, \$2. Credit value: Two semester hours.

367]. Management.—Mine examination, sampling, reporting, welfare, organization, financing, and other interesting management problems are considered in a lecture course given only to students who will complete the requirements for the Bachelor of Science degree by the end of the following fall semester. Three lectures. Credit value: Three semester hours.

267]. Management.—Same as Mining 367f with the exception that only two lecture hours will be given. Credit value: Two semester hours. (To be omitted in Long Session, 1941-1942; to be offered in 1942-1943.)

269s. Management.—A continuation of the work given in Mining 367. Prerequisite: Mining 367. Two lectures. Credit value: Two semester hours. (In 1942-1943, prerequisite will become Mining 267.)

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 1940 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

321s. 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. (Given in Long Session, 1940–1941; to be offered in Spring Term, 1941–1942 as Metallurgy 321s.)

423f. Ore Dressing and Milling.—A student of the principles governing the processes employed in the liberation and separation of the minerals, including crushing and grinding, screening, classification, amalgamation, gravity concentration, magnetic separation, and flotation. In the laboratory the student becomes familiar with milling machinery and methods of separation. Prerequisite: Metallurgy 321. Three lectures and three laboratory hours. Laboratory fee, \$4. Credit value: Four semester hours. (Given in Long Session 1940–1941; to be offered in the fall term, 1941–1942 as Metallurgy 423f with the following prerequisites: Chemistry 311, Geology 217, Drawing 302, and Physics 812.)

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. (Given in Long Session, 1940-1941 as Chemistry 324; to be offered in Long Session, 1941-1942.)

325]. Non-metallics.—A survey course of the non-metallic and ceramic industries, not including coal, oil or sulphur. Emphasis is placed upon the present economic utilization of, and possible future demands for, those minerals which are classed as non-metallic. Prerequisite: Metallurgy 423 must have been completed, or if not, must be taken concurrently. Two lectures and three laboratory hours. Laboratory fee, \$2. Credit value: Three semester hours. (Omitted in Long Session, 1940–1941; to be offered in Long Session, 1941–1942.)

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. (To be offered in Long Session, 1941-1942.)

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. (To be offered in Long Session, 1941-1942.)

361j. 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.

362]. 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.

263]. Advanced Ore Dressing.—A study of the engineering features of ore dressing, including computations and design of bins, milling machinery, and mill circuits. Prerequisite: Metallurgy 423. Two lectures. Credit value: Two semester hours.

364s. Metallurgical Laboratory.—In this course the student receives an individual problem, or problems, which he handles as research work. At times this work will consist of problems submitted to the College from various fields of metallurgy. Prerequisite: Metallurgy 361 and Metallurgy 362. Six laboratory hours. Laboratory fee, \$2. Credit value: Three semester hours.

264s. Metallurgical Laboratory.—This course handles part of the work covered by Metallurgy 364 and is intended for those students who wish to do some research work but cannot devote the time necessary for full credit toward graduation. Prerequisite: Metallurgy 361. Six laboratory hours. Laboratory fee, \$2. Credit value: Two semester hours.

265f. Ore Dressing and Milling.—Ore testing and mill design. Prerequisite: Metallurgy 263 in advance or concurrently. Six laboratory hours. Laboratory fee, \$2. Credit value: Two semester hours.

473s. Metallography.—An elementary course in the metallography of various metals and products and the heat treatment of iron and steel. Prerequisite: Metallurgy 261. 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 AVERETT, ELDRIDGE,
OLMSTEAD; INSTRUCTOR FINEAU

The admission requirement of two units is represented by Course A, which will not count toward a degree for students presenting two admission units in a modern language. Those with two units will enter Course Ia in the same language. For those presenting three units neither Course A nor Course Ia will count. Such students will enter Course Ib. Students entering with less than two years of high-school language are required to begin with Language Aa.

French, German, Spanish

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

French

- 336f. Modern Drama: Early Period.—From Molière to Musset, including representative plays by outstanding classical and romantic dramatists, such as Corneille, Racine, Dumas, Hugo and de Vigny. Prerequisite: French 12. Credit value: Three semester hours. (Omitted in 1940-1941; to be offered in 1941-1942.)
- 338s. Introduction to French Romanticism.—Reading of representative novels and plays by Hugo, de Vigny, Dumas, Père and Museet, etc. Prerequisite: French 12. Credit value: Three semester hours. (Offered in 1940–1941; to be omitted in 1941–1942.)
- 340s. Modern Drama: Later Period.—Representative plays from Dumas Fils to Claudel, including the outstanding works of Augier, Becque, Brieux, Rostand, Bernstein, Lenormand. Prerequisite: French 12. Credit value: Three semester hours. (Omitted in 1940-1941; to be offered in 1941-1942.)
- 357f. Advanced Composition and Grammar Review.—A course recommended for prospective teachers. An intensive review of grammatical principles and idioms. Exercises in translation and free composition. Prerequisite: French 12. Credit value: Three semester hours. (Given in 1940–1941; to be omitted in 1941–1942.)

Spanish

- 301s. Conversational Spanish.—A practical course designed for non-Spanish students who wish to acquire a fluent ability to express themselves in the language. Open to all students. Not counted toward fulfillment of requirements for the modern language majors. Credit value: Three semester hours.
- 13. Social and Business Usage,—Translation, composition, and conversational practice in the language of business and everyday life. Reading of texts, building up of practical vocabulary, and grammatical drill in essential constructions. This course is not intended for Spanish majors but is recommended for students who will not continue into courses in the literature,

and may be substituted by such students for Spanish 12. Prerequisite: Spanish 1. Credit value: Six semester hours.

- 328s. Golden Age Drama.—A study of the leading dramatista, 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. (Omitted in 1940-1941, to be offered in 1941-1942.)
- 332s. Classical Epoch Prose.—A study of the movements in the prose writings of the sixteenth and seventeenth centuries, such as: novelesque, chivalresque, picaresque, satirical, pastoral, mystic, etc. Readings of masterpieces; outside reading reports. Prerequisite: Spanish 12. Credit value: Three semester hours. (Omitted in 1940-1941; to be offered in 1941-1942.)
- 333s. 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 of 1940.)
- 334j. 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. (Omitted in 1940-1941; to be offered in 1941-1942.)
- 335f. Modern Novel: Early Period.—A study of the trends in the development of the novel from the latter part of the eighteenth to the latter part of the nineteenth century. Readings from such authors as: Padre Isla, Fernán Caballero, Pedro Antonio de Alcarón, Juan Valera, José María de Pereda, Pérez Galdós, Pardo Bazán, etc.; outside reading reports. Prerequisite: Spanish 12. Credit value: Three semester hours. (Civen in 1940-1941; to be omitted in 1941-1942.)
- 336r. Modern Drama: Early Period.—A study of the trends in the development of the drama from the latter part of the eighteenth to the latter part of the nineteenth century. Readings from such dramatists as: Leandro Fernandez de 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 1940-1941; to be omitted in 1941-1942.)
- 337s. Modern Novel: Later Period.—A study of the trends in the development of the novel from the latter part of the nineteenth century to the present. Selected readings from such authors as: Palacio Valdés, Blasco, Ibañez, Pío Baroja, Ricardo León, Pérez de Ayala, etc.; outside reading reports. Prerequisite: Spanish 12. Credit value: Three semester hours. (Given in 1940-1941; to be omitted in 1941-1942.)
- 339f. The Cuento and Short Story in Spain.—A study of various types of 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 of 1940.)

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, Los Quinteros, Mártinez Sierra, Eduardo Marquina, etc.; outside reading reports. Prerequisite: Spanish 12. Credit value: Three semester hours. (Given in 1940–1941; to be omitted in 1941–1942.)

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. (Omitted in 1940–1941; to be offered in 1941–1942.)

MUSIC

Assistant Professor Johnson; Instructor Roe

Theory

- 301j-1. Sight Singing and Ear Training.—This course includes the fundamentals of music such as scale building and writing; music notation, solfeggio; the singing of melodies at eight; two, three, and four-part singing; and the writing of melodies after hearing them played. Credit value: 301, three semester hours; I, six semester hours. (Given in Long Session 1940-1941.)
- 10. First Course in Harmony.—This course includes the study of scales, intervals, elementary chord formation, primary and secondary triads, dominant and secondary sevenths, melody writing, harmonization of melodies, study of cadential combinations including many of the important chord forms throughout the major and minor keys. Prerequisite: Music 1, or Sophomore standing and consent of instructor. Credit value: Six semester hours. (Given in Long Session 1940-1941.)
- 20. Advanced Harmony.—This course includes the study of ninth, eleventh, and thirteenth chords; altered chords derived from the interchange of mode, and the Neopolitan sixth; and augmented harmonies, transition, modulation, and further work in keyboard harmony. Prerequisite: Music 10. Credit value: Six semester hours. (Given in Long Session 1940-1941.)
- 30. History and Appreciation of Music.—The development of music from the earliest writers to the modern composers is included in this course in conjunction with a study of the major operatic and symphonic works. Pre-requisite: Music 10. Credit value: Six semester hours. (Given in Long Session, 1940-1941.)

- 40. Counterpoint.—This course is a study of the melodic tones; melody formation; two, three, and four-part counterpoint in all species; invertible counterpoint; canonic imitation; and original writing in the contrapuntal forms. Prerequisite: Music 10. Credit value: Six semester hours. (To be omitted in 1940-1941.)
- 50. Theory and Practice of Conducting.—A course meant primarily for individuals interested in the direction of either instrumental or choral organizations. It consists of detailed study and analysis of instrumental and vocal scores besides practical application of laws governing the baton. Prerequisite: Twelve semester hours of music or Music 10. Credit value: Six semester hours. (To be offered in Long Session 1941-1942.)

PUBLIC SCHOOL MUSIC

351f-51. Music in the Elementary Grades.—This course, offered in the training of teachers and supervisors of Public School Music, includes the study of rote-singing and teaching methods, lesson preparation and presentation, and teaching technique. The course is supplemented by other departments of the school. Prerequisite: Education 314 and 318; and Music 301 or consent of the instructor. Credit value: 351, three semester hours; 51, six semester hours. (To be offered in Long Session in 1941-1942.)

352f-52. 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 observations will provide the practical experience necessary. Prerequisite: Education 316 and 317, and Music 301 or consent of instructor. Credit value: 352, three semester hours; 52, six semester hours. (To be offered in Long Session 1941-1942.)

APPLIED MUSIC

Band

- 01. Ensemble.—Marching practice and maneuvers; exercise materials for large and small groups throughout both semesters. This course may be substituted for Physical Training 01 and 02. Five hours per week throughout the year. Non credit.
- 311f. Ensemble.—Marching practice and maneuvers; more advanced study materials for small and large groups. Six hours per week throughout the semester. Prerequisite: Band 1. Credit value: Three semester hours.
- 315s. Ensemble.—A course offered in the second semester for second year students on embouchure and breath control in technical studies. Six hours per week throughout the semester. Prerequisite: Band 01. Credit value: Three semester hours.
- 321s. Instrument Technique.—Specialized study of various instruments of the band with emphasis upon solo material. Six hours per week throughout

the semester. Prerequisite: Band 311 and 315. Credit value: Three semester hours. Offered in alternate years.

- 325f. Marching Technique.—Student participation in and study of formation charts for marching and maneuver charts and plans for musical stunts on the field required of students. Also a more concentrated study of the individual instruments of the band. Six hours per week throughout the semester. Prerequisite: Band 311 and 315. Credit value: Three semester hours. Offered in alternate years.
- 33lf. Instrumental Methods.—Study of instrumentation, concert materials, ensembles, management, and rehearsal procedure from the standpoint of the director. Six hours per week throughout the semester. Prerequisite: Band 311 and 315. Credit value: Three semester hours. Offered in alternate years.
- 335s. Program Organization and Management.—All students will participate in recital programs presented by the Department and assist in the planning and preparation of the programs. These programs will cover material acceptable for advanced college students. Six hours per week throughout the semester. Prerequisite: Band 311 and 315. (For 1940-1941, Band 311 only.) Credit value: Three semester hours. Offered in alternate years.

Chorus

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- 02. Chorus Music.—Song materials of a type suitable for study purposes with emphasis placed upon notation, phrasing, breathing, diction. Five hours per week throughout the year. Non credit.
- 312f. Chorus Music.—More advanced song materials with increased emphasis on correct singing. Six hours per week throughout the semester. Prerequisite: Chorus 2. Credit value: Three semester hours.
- 314s. Song Materials and Repertory.—Much stress placed on the importance of individually correct singing. Six hours per week throughout the semester. Prerequisite: Chorus 02. Credit value: Three semester hours.
- 322f. Choral Ensemble Music.—Participation in small ensemble groups stressing vocal technique for the individual. Six hours per week throughout the semester. Prerequisite: Chorus 312 and 314. Credit value: Three semester hours. Offered in alternate years.
- 324s. Vocal Technique.—Individual and small ensemble work with emphasis placed on development of proper stage and concert poise and mannerisms. Six hours per week throughout the semester. Prerequisite: Chorus 312 and 314. (For 1940-1941, Chorus 312 only.) Credit value: Three semester hours. Offered in alternate years.
- 332f. 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. Six hours per week

throughout the semester. Prerequisite: Chorus 312 and 314. Credit value: Three semester hours. Offered in alternate years.

334s. Choral Problems and Technique; Methods of Organization.—Concertizing problems and methods. Students act as advisory group to the officers of the Varsity Singers. Six hours per week throughout the semester. Prerequisite: Chorus 312 and 314. Credit value: Three semester hours. Offered in alternate years.

Orchestra

- 03. Orchestra.—Ensemble materials of general use suitable for first year college orchestra. Five hours per week throughout the year. Non credit.
- 313f. Orchestra.—Small ensemble work along with special individual assignments to supplement full orchestra. Six hours per week throughout the semester. Prerequisite: Orchestra 03. Credit value: Three semester hours.
- 316s. Orchestra.—Ensemble drill and special individual attention in outside assignments continued along with full orchestra. Six hours per week throughout semester. Prerequisite: Orchestra 03. Credit value: Three semester hours.
- 323f. Orchestra.—Chamber music group-studies for all instruments and solo literature for all instruments. Six hours per week throughout the semester. Prerequisite: Orchestra 313 and 316. Credit value: Three semester hours. Offered in alternate years.
- 326s. Orchestra.—Chamber music group-studies for all instruments along with special solo studies, all of which will make up the departmental recital programs. Students will participate in these programs and will assist in the selection and training of each ensemble. Six semester hours per week throughout the semester. Prerequisite: Orchestra 313 and 316. (For 1940-1941, Orchestra 313 only.) Credit value: Three semester hours. Offered in alternate years.
- 333f. Orchestra.—The direction, organization, and management of school and civic orchestras. Study of instrumentation and baton technique. Six hours per week throughout the semester. Prerequisite: Orchestra 313 and 316. Credit value: Three semester hours. Offered in alternate years.
- 336s. Orchestra.—Offered for advanced students with recital programs in mind. This course is intended primarily to train the advanced students to plan and organize programs and assist with their preparation. Six hours per week throughout the semester. Prerequisite: Orchestra 313 and 316. Credit value: Three semester hours. Offered in alternate years.

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. (Omitted in 1940-1941; to be offered in 1941-1942.)
- 314. 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 1940-1941; to be omitted in 1941-1942.)
- 315s. Ethics.—Introductory survey of the evolution of moral codes and ideals; reflective morality; conduct and character; conflicts of interests; personal and social ethics. Prerequisite: Sophomore standing. Credit value: Three semester hours. (Omitted in 1940-1941; to be offered in 1941-1942.)
- 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 1940-1941; to be omitted in 1941-1942.)
- 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. (Omitted in 1940-1941; to be offered in 1941-1942.)

Psychology

- . 310/s. 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. (Omitted in 1940-1941; to be offered in 1941-1942.)
- 316s. Business Psychology.—A study of the psychological factors and principles involved in modern business, industry, marketing, advertising and salesmanship. Prerequisite: Psychology 310. Credit value: Three semester hours. (Given in 1940–1941; to be omitted in 1941–1942.)

- 320j. The Psychology of Personality.—A study of the fundamental traits of personality, their origin, development and control; maladjustments and disorders of the personality and their treatment. Prerequisite: Psychology 310, and three additional semester hours of either philosophy or psychology. Credit value: Three semester hours. Formerly Psychology 319. (Given in 1940-1941; to be omitted in 1941-1942.)
- 344s. Mental Hygiene.—Prerequisite: Six semester hours in psychology, or in philosophy, or in both. Credit value: Three semester hours. (Given in 1940-1941; to be omitted in 1941-1942.)
- 351f. Social Psychology.—Social phenomena; psychological technique for the study of complexes, attitudes and social behavior; social control. Prerequisite: Six semester hours in psychology. (To be offered in 1941-1942.)
- 352s. Abnormal Psychology.—Suggestibility and hypnotism; dreams; nervous and mental disorders; mental effect of drugs; normal and abnormal motivation; the concept of insanity; spiritistic phenomena. Lectures and demonstrations. Prerequisite: Six semester hours in psychology. (To be offered in 1941-1942.)

PHYSICAL EDUCATION

Professor Knox; Associate Professor Saxon; Instructors Kane, Phillips

- 312s. Tumbling and Gymnastics.—Theory and practice in tumbling, apparatus, calesthenics, pyramids and stunts. Arranging the school program. Prerequisite: Sophomore standing. Credit value: Three semester hours. (Open to men only.)
- 313f. Technique of Minor Sports.—Theory and practice, methods and materials for teaching; tag football, soccer, speedball, volleyball, playground baseball. Prerequisite: Sophomoro standing. Credit value: Three semester hours. (Open to men only.)
- 316s. Technique of Major Sports.—Coaching methods in football and basketball. Training, conditioning, practice schedules, and sport fundamentals. Prerequisite: Sophomore standing. Credit value: Three semester hours. (Open to men only.)
- 319s. Principles of Health and Physical Education.—Social, biological, and educational basis for health and physical education. Aims, objectives, content and standards. Selection and adaptation of activities to different ages and conditions. Prerequisite: Sophomore standing. Credit value: Three semester hours. (Open to men and women.)
- 320f. Fundamentals of Health.—The scientific basis for health instruction, basic health information for college students and health teachers; stress will be placed upon practical health problems and adequate health knowledge.

Prerequisite: Six semester hours of science and junior standing. Credivalue: Three semester hours. (Open to men and women.)

- 321f. Physical Education for Elementary Schools.—Philosophy of play, content, progression and organization of the play program for elementary and junior high schools. Prerequisite: Junior standing. Credit value: Three semester hours. (Open to men and women.)
- 322. Modern Trends in Physical Education.—The activity program, interscholastic and intramural athletics; the physical education plant; student leaders; management of finances; testing in P. E. Prerequisite: Junior standing. Credit value: Three semester bours. (Open to men and women.)
- 360j. Methods and Materials in Health Education.—The field of Health Education, problems in administering the program, teaching aids for the health teacher, the teacher's part in health protection of children. Prerequisite: P. E. 320 or its equivalent and junior standing. Credit value: Three semester hours. (Open to men and women.)

DEGREES CONFERRED IN JUNE, 1940

Engineer of Mines

EUGENE MCRAE THOMAS

Bachelor of Science in Mining Engineering

Julius Myles Carrera
Oscar Hernandez Chavez
Jose Oscar Cobos
Ben Fino
Ezequiel E. Garcia
Robert Livingston Hall
Bernard J. Kerley, Jr.
Charles D. King
James Vincent King
James Matthew Maurice

Jose Melendez
Robert Turner Mitcham
Juan J. Prieto
Sam H. Reed, Jr.
Nicanor G. Saldana
Patrick Gerald Sullivan
Federico E. Villareal
Rodolfo L. Villareal
Howard B. Wiley
Jose B. Zozaya F.

Bachelor of Arts

Winnifred Mae Andresen Lionel H. Andrews Lu Venia Evertte Arnold George Attel John Thomas Beaty Mildred Orndorff Bennett Gordon L. Black Winston Lee Black Robert Leroy Bowling Carmen Burciaga Z. William John Byers Julia Carlton Paul H. Carlton Alfred J. Carpenter Mary Ellen Casner Christine Chapman Margaret Evelyn Crabtree Ward Evans Helen Florence Galbraith Isis Molina Galindo Evelyn Elizabeth Gibson Raymond M. Graves Thomasine Anne Gray James R. Harper Kenneth Heineman Barbara Hemley Mildred Udell Hodges Bobbie Lee Hunnicutt Sue Elizabeth Jackson Naomi Dowd Jameson

Lenora Womack Jenness Margaret Asmann Kahl Daniel J. Kerley John Ervin Krebs Lillian A. Lind Felice Alexandria Link Geraldine Mayfield Harry J. Miskimins George Ray Pell Richard Jack Phillips Morris H. Raney Joyce Leslie Reed Katherine Kennard Riley Eugene P. Rister Robert R. Ritter Sam Rosenberg Marie Soltner Rouse Ray Philips Saffold, Jr. Joseph Simon Mae Oliver Soucek James M. Stacy Eryline Stoker Valilyan Clifford Strain Thelma Mae Sundquist David Wilson Tappan Juanice Tillman Wanga Bryars Tinnin Venita Vinson R. A. Whitlock, Jr. Catherine Jane Wilson

DEGREES CONFERRED IN AUGUST, 1940

Bachelor of Science in Mining Engineering

DANIEL M. DEL SOBRAL

Bachelor of Arts

Elizabeth M. Adams Cecilio Arredondo, Jr. Louise Capron Bagge Sara Huxford Ball Marie Brieden Biediger Louise Yates Black Lucie Lee Gregg Black Wycliffe Joseph Bryan, Jr. Howard Earl Byers Edna Thompson Chancey Robert Dean Clark Elna Mae Coppedge Salvador del Valle Vincent Desmond Pina Mae Earp Virginia Teddy Feeback Lovella Spikes Fisher Dorothy Hamlyn James Arthur Hart Mary La Barre Hignett

Arnie Miller Johnsen Tom Miller Kirksey Nancy Kitson J. D. Lambeth Amelia Louzara A. W. McCormick, Jr. Kermit Curtis O'Neal Katherine Snapp Putnam Emilie L. Rheinheimer Dorothy Rigdon Mildred Roden Marjorie E. Sherrill Ray E. Stiles Cecil A. Thomas Lela Dodson Tiller Nell Gibson Valdez Harold Weiller Athalie Nell Williams Wilma Anne Wilmoth Martha Bagge Wilson

(4)

COLLEGE OF MINES AND METALLURGY

REGISTER OF STUDENTS

Long Session, 1939-1940

Abbott, Thomas	El Puso	Babcock, Clarence V	Fr Davis
Abrego, Alfredo	El Paso	Bachicha, Paul	El Paso
Acason, Gloria	Fl Peso	Barge Mrs Louise	El Paso
Adams, Mrs. Adele	El Paso	Bagge, Mrs. Louise Bailey, Melvin D.	San Angelo
Adams, Mrs. Elizabeth		Bainbridge, Marian	El Paso
Adams, W. B., Jr.		Bainbridge, Marian Baird, Ober Lee	El Paso
Adkins, Charlotte	Fl Paso	Baird, Ruth	El Paso
Adkins, Mary Elizabeth.	El Paso	Baker, David Knight	
Adkins, Thomas	El Paso	Baldwin, Eloine	El Paso
Agee, CharlesW	ichita Falls	Ball, Mrs. Sally	El Paso
Akeroyd, Edward	El Paso	Rall Thomas	El Paso
Alden, Catalina	El Paso	Ballentine, Lilybell	Ysleta
Alderete, Francisco	El Paso	Barber, TremanCh	erokee. Okla
Alderete losenh	El Paso	Barboglio, Pete	El Paso
Alderete, Joseph	El Paso	Barger, Mrs. Eleanor	El Paso
Alexander, Katherine	El Paso	Barker, Alan	El Paso
Alford, Elva Jane	El Paso	Barlowe, Ann	El Paso
Allen Fave W	El Paso	Barrett, Frank	El Paso
Allen, Faye W	El Pago	Barrett, Fred	
Alley La Verne	El Paso	Barron, Jack	-El Paso
Alton Noel	El Paso	Barrueta, Alfonso	El Paso
Amstater, Shirley	_ El Paso	Barry, John S.	El Paso
Alley, La Verne Alton, Noel Amstater, Shirley Anderson, James E.	Montague	Barton, John	El Paso
Andre, Lois	El Paso	Barwise, Marjorie	El Paso
Andre. Ruth	El Paso	Beahler, Maybelle	El Paso
Andre, Ruth	El Paso	Beasley, LesterC	maha. Texas
Andrews, Lionel H	Canton	Beaty, JohnWas	
Andrews, Richard	El Paso	Beckett, Betty	El Paso
Antene, Charles T	El Paso	Beckham, Vance W	Wickett
Antone, E. Haywood	_Clarksville	Beckham, Vivian N	Wickett
Apodoca, Jessie	Ysleta	Beckham, Vance W Beckham, Vivian N Bell, Edward Bellman, Benjamin	El Paso
Arana, Manuel O., Chihua	hua, Mexico	Bellman, Benjamin	Safford, Ariz.
Arant, James B.	_ El Paso	Beitz, Geraldine	El Paso
Arevalo, Aurelia	El Paso	Bemis, George	El Paso
Arguelles, Fernando	El Paso	Bemis, Robert E	El Paso
Armagnac, Martin	El Paso	Benish, Joe	El Paso
Armstrong, Jane M	El Paso	Benjamin, Elsie	El Paso
Arnold, Floyd	Roscoe	Bennett, Mrs. Mildred	El Paso
Arnold, Katherine	Marathon	Bevan, Donald	El Paso
Arnold, Lafe	El Paso	Bickel, Robert E	El Paso
Arnold, Lloyd	Roscoe	Billingsley, Miriam	El Paso
Arnold, LuVenia	El Paso	Biron, Betty Jane	El Paso
Arredondo, Cecilio	El Paso	Black, Donald	El Paso
Arredondo, Concha	El Paso	Black, Gordon	El Paso
Arroyo, Robert	El Paso	Black, Joseph	El Paso
Arroyo, Robert	El Paso	Black, Mrs. Louise	El Paso
Avila, SalvadorSanta	Rita, N.M.	Black, Mrs. Lucie Lee	El Paso
Ayoub, George	El Paso	Black, Wallace	El Paso
Avub. Romeo	El Paso	Black, William	El Paso
Azar, Selema	El Paso	Black, Winston	El Paso
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Blalock, Clovis	Paso Burrus, Constance Ysleta Paso Burrus, Margaret Ysleta Paso Bustamante, Joaquin El Paso Paso Byers, Howard El Paso Paso Byers, Howard El Paso Paso Byers, Mary E. El Paso Paso Byers, Mary E. El Paso Paso Byers, Mary E. El Paso Paso Calamia, Joe El Paso Paso Calderhead, William El Paso Paso Callon, Jack Odessa Paso Campo, Glen E. El Paso Camp, Glen E. El Paso Campbell, Doris El Paso Canton, Anne T. El Paso Cantrill, Jack El Paso Cantrill, Jack El Paso Cantrill, Jack El Paso Canton, Anne T. El Paso Cantrill, Jack El Paso Canton, Anne T. El Paso Canton, Anne T. El Paso Canton, Madlyn El Paso Carlson, Madlyn El Paso Carlson, Robert El Paso Carlton, Julia El Paso Carlton, Julia El Paso Carlton, Julia El Paso Carlon, Julia El Paso Carlon, Federico Juarez, Mexico Paso Carpo, Federico Juarez, Mexico
Blanchard, Mrs. Kate. El Paso Blaugrund, Morton El Paso Bledsoe, Robert El Paso Blount, Wanda Jo El Paso Bolling, Jack El Paso Bolling, Jack El Paso Bollman, James El Paso Bonaguidi, Loraine El Paso Borrego, William El Paso Borunda, Joe El Paso Borunda, Joe El Paso Boudreau, Theodore El Paso Bowden, Elizabeth Fabens Bowling, Robert El Paso Boyd, Hershel Crane Boyd, Hershel Washington, D.C. Bradbury, Anne M. El Paso Bradshaw, Margie El Paso Bradshaw, Margie El Paso Bradshaw, Mary Frances El Paso Breckenridge, Lemuel El Paso Bridges, Kenneth El Paso Britton, A. Marrene El Paso Britton, A. Marrene El Paso Brock, Wilnifred El Paso Brock, Winnifred El Paso Brock, Winnifred El Paso Brarso, Bloutnof, Margie El Paso Brock, Winnifred El Paso Brack, Wilnifred El Paso Bridges, Kinnifred El Paso Brock, Winnifred El Paso Brarso, Bitton, Jack El Paso Brock, Winnifred El Paso Brarso, El Paso Brarso, Burrus, Margaret Bustamante, Joaquin El Butchofsky, Dick But	Paso Burrus, Margaret Ysleta Paso Bustamante, Joaquin El Paso Bustamante, Joaquin El Paso Butchofsky, Dick Ysleta Paso Byers, Howard El Paso Paso Byers, J. William El Paso Paso Byers, Mary E. El Paso Paso Byers, Mary E. El Paso Paso Calamia, Joe El Paso Paso Calderhead, William El Paso Paso Calderhead, William El Paso Callon, Jack Odessa Paso Camp, Glen E. El Paso Camp, Glen E. El Paso Camp, Ismael Morenci, Ariz. Paso Campbell, Doris El Paso Cander Campbell, William El Paso Canton, Anne T. El Paso Canton, Anne T. El Paso Cantill, Jack El Paso Cantu, Luis Juarez, Mexico Paso Carlson, Madlyn El Paso Carlson, Robert El Paso Carlson, Robert El Paso Carlton, Julia El Paso Carlon, Julia El Paso Carlson, Robert El Paso Carlon, Julia El Paso Carlon, Julia El Paso Carpaso Carlton, Julia El Paso Carpo, Federico Juarez, Mexico
Bledsoe, Robert El Paso Blount, Wanda Jo El Paso Boland, Beth El Paso Bolling, Jack El Paso Bollman, James El Paso Bombach, Carlos El Paso Bonaguidi, Loraine El Paso Bornego, William El Paso Borunda, Joe El Paso Boudreau, Theodore El Paso Boudreau, Theodore El Paso Bowling, Robert El Paso Boyd, Hershel Crane Boykin, Charlotte Washington, D.C. Bradshaw, Margie El Paso B	Paso Butchofsky, Dick Ysleta Paso Byers, Howard El Paso Paso Byers, J. William El Paso Paso Byers, Mary E. El Paso Paso Byers, Mary E. El Paso Paso Byler, Lois El Paso Paso Calamia, Joe El Paso Paso Calderhead, William El Paso Callon, Jack Odessa Paso Callon, Jack Odessa Paso Campo, Glen E. El Paso Campa, Ismael Morenci, Ariz. Campa, Ismael Morenci, Ariz. Canno Campbell, Doris El Paso Campbell, William El Paso Cantrill, Jack El Paso Cantrill, Jack El Paso Cantill, Jack El Paso Paso Cantill, Jack El Paso Caplinger, Mrs. Alice El Paso Carlson, Madlyn El Paso Paso Carlson, Robert El Paso Carlton, Julia El Paso Paso Carlton, Julia El Paso Carlton, Paul El Paso Carpo, Federico Juarez, Mexico Paso Carpio, Federico Juarez, Mexico
Bledsoe, Robert El Paso Blount, Wanda Jo El Paso Boland, Beth El Paso Bolling, Jack El Paso Bollman, James El Paso Bombach, Carlos El Paso Bonaguidi, Loraine El Paso Bornego, William El Paso Borunda, Joe El Paso Boudreau, Theodore El Paso Boudreau, Theodore El Paso Bowling, Robert El Paso Boyd, Hershel Crane Boykin, Charlotte Washington, D.C. Bradshaw, Margie El Paso B	Paso Butchofsky, Dick Ysleta Paso Byers, Howard El Paso Paso Byers, J. William El Paso Paso Byers, Mary E. El Paso Paso Byers, Mary E. El Paso Paso Byler, Lois El Paso Paso Calamia, Joe El Paso Paso Calderhead, William El Paso Callon, Jack Odessa Paso Callon, Jack Odessa Paso Campo, Glen E. El Paso Campa, Ismael Morenci, Ariz. Campa, Ismael Morenci, Ariz. Canno Campbell, Doris El Paso Campbell, William El Paso Cantrill, Jack El Paso Cantrill, Jack El Paso Cantill, Jack El Paso Paso Cantill, Jack El Paso Caplinger, Mrs. Alice El Paso Carlson, Madlyn El Paso Paso Carlson, Robert El Paso Carlton, Julia El Paso Paso Carlton, Julia El Paso Carlton, Paul El Paso Carpo, Federico Juarez, Mexico Paso Carpio, Federico Juarez, Mexico
Blount, Wanda Jo	Paso Byers, Howard El Paso Paso Byers, J. William El Paso Byers, Mary E. El Paso Paso Byler, Lois El Paso Paso Paso Calamia, Joe El Paso Paso Calderhead, William El Paso Paso Callan, Russell, Jr. El Paso Callon, Jack Odessa Paso Cameron, Bruce El Paso Paso Campa, Ismael Morenci, Ariz. Paso Campa, Ismael Morenci, Ariz. Paso Campell, Doris El Paso Canne Campbell, William El Paso Canton, Anne T. El Paso Cantill, Jack El Paso Canton, Anne T. El Paso Canton, Madlyn El Paso Paso Carlson, Madlyn El Paso Paso Carlson, Robert El Paso Carlson, Robert El Paso Carlton, Julia El Paso Carpaso Carpenter, Alfred El Paso Carpio, Federico Juarez, Mexico
Boland, Beth El Paso Bolling, Jack El Paso Bollman, James El Paso Bombach, Carlos El Paso Bonaguidi, Loraine El Paso Borrego, William El Paso Borunda, Joe El Paso Bourleau, Theodore El Paso Boudreau, Theodore El Paso Bowden, Elizabeth Fabens Bowden, Elizabeth Fabens Bowling, Robert El Paso Boyd, Hershel Crane Boykin, Charlotte Washington, D.C. Bradbury, Anne M. El Paso Bradshaw, Margie El Paso Bradshaw, Mary Frances El Paso Bradshaw, Mary Frances El Paso Bradshaw, Mary Frances El Paso Breckenridge, Lemuel El Paso Bridges, Kenneth El Paso Bridges, Kenneth El Paso Bridgers, Carolyn El Paso Britton, A. Marrene El Paso Britton, Jack El Paso Brock, Winnifred El Paso Brock, Winnifred El Paso Brarsco, Britton, Jack El Paso Brock, Winnifred El Paso Brarsco, Eliseo El Brarsco, Eliseo El Paso Brarsco, Bilton, A. Marrene El Paso Brock, Winnifred El Paso Brarsco, Eliseo El Paso Carracco, David El	Paso Byers, J. William
Bolling, Jack El Paso Bollman, James El Paso Bombach, Carlos El Paso Bonaguidi, Loraine El Paso Borrego, William El Paso Borunda, Joe El Paso Boudreau, Theodore El Paso Boudreau, Theodore El Paso Bowland, Eugene El Paso Bowden, Elizabeth Fabens Bowling, Robert El Paso Boyd, Hershel Crane Boykin, Charlotte Washington, D.C. Bradbury, Anne M. El Paso Bradshaw, Margie El Paso Bradshaw, Margie El Paso Bradshaw, Mary Frances El Paso Branch, William El Paso Brennan, Ann El Paso Bridges, Kenneth El Paso Bridges, Kenneth El Paso Britton, A. Marrene El Paso Britton, Jack El Paso Brock, Winnifred El Paso Brock, Winnifred El Paso Brock, Winnifred El Paso Brasco, Wilnifred El Paso Brasco, William Alamogordo, Brock, Winnifred El Paso Brock, Winnifred El Paso Brasco, Eliseo El Servasco, Eliseo	Paso Byers, Mary E. El Paso Paso Byler, Lois El Paso Paso Paso Calamia, Joe El Paso Calderhead, William El Paso Callon, Jack Odessa Paso Campon, Bruce El Paso Campon, Glen E. El Paso Campoll, Doris El Paso Campbell, Doris El Paso Campbell, William El Paso Campbell, William El Paso Cantrill, Jack El Paso Canton, Anne T. El Paso Cantrill, Jack El Paso Canton, Madlyn El Paso Carlson, Madlyn El Paso Carlson, Robert El Paso Carlton, Julia El Paso Carlton, Julia El Paso Carlton, Paso Carlton, Paul El Paso Carpon, Federico Juarez, Mexico Carpilo, Federico Juarez, Mexico
Bollman, James El Paso Bombach, Carlos El Paso Bonaguidi, Loraine El Paso Borrego, William El Paso Borunda, Joe El Paso Boudreau, Theodore El Paso Boudreau, Theodore El Paso Bowling, Robert El Paso Boyd, Dan El Paso Boyd, Hershel Crane Boykin, Charlotte Washington, D.C. Bradbury, Anne M. El Paso Bradshaw, Margie El Paso Bradshaw, Margie El Paso Bradshaw, Mary Frances El Paso Branch, William El Paso Branch, William El Paso Brennan, Ann El Paso Bridges, Kenneth El Paso Bridges, Katherine El Paso Britton, A. Marrene El Paso Britton, Jack El Paso Brock, Winnifred El Paso Brock, Winnifred El Paso Brock, Winnifred El Paso Braso, Winnifred El Paso Braso, Carrasco, David El Braso, Carrasco, Eliseo El Braso Carrasco, Eliseo	Paso Paso Paso Calamia, Joe El Paso Paso Calderhead, William El Paso Paso Callan, Russell, Jr. El Paso Callan, Russell, Jr. El Paso Callan, Russell, Jr. El Paso Paso Callon, Jack Odessa Paso Cameron, Bruce El Paso Camp, Glen E. El Paso Campa, Ismael Morenci, Ariz. Paso Campbell, Doris El Paso Canderill, Jack El Paso Cantill, Jack El Paso Carlson, Madlyn El Paso Carlson, Madlyn El Paso Paso Carlson, Robert El Paso Carlton, Julia El Paso Carlton, Paul El Paso Carpenter, Alfred El Paso Carpio, Federico Juarez, Mexico Carpio, Federico Juarez, Mexico
Bombach, Carlos El Paso Bonaguidi, Loraine El Paso Borrego, William El Paso Borunda, Joe El Paso Boudreau, Theodore El Paso Boudreau, Theodore El Paso Bourland, Eugene El Paso Bowden, Elizabeth Fabens Bowden, Elizabeth Fabens Boyd, Dan El Paso Boyd, Hershel Crane Boykin, Charlotte Washington, D.C. Bradbury, Anne M. El Paso Bradshaw, Margie El Paso Bradshaw, Margie El Paso Bradshaw, Margie El Paso Bradshaw, Mary Frances El Paso Bradshaw, Mary Frances El Paso Bradshaw, Mary Frances El Paso Bradges, Katherine El Paso Bridges, Kenneth El Paso Bridges, Carolyn El Paso Britton, A. Marrene El Paso Britton, A. Marrene El Paso Brock, Winnifred El Paso Brock, Winnifred El Paso Brock, Winnifred El Paso Braso, William El Paso Brock, Winnifred El Paso Brock, Winnifred El Paso Braso, Carraco, David El Braso Brock, Winnifred El Paso Braso, Carraco, David El Braso Brock, Winnifred El Paso Braso, Carraco, David El Braso Braso, Carraco, David El Braso Braso,	Paso Paso Paso Paso Paso Paso Paso Calderhead, William El Paso Callan, Russell, Jr. El Paso Paso Callan, Russell, Jr. El Paso Paso Callon, Jack Paso Paso Paso Campo, Glen E. Paso Campa, Ismael Morenci, Ariz. Paso Campbell, Doris Cane D.C. Canton, Anne T. Paso Cantrill, Jack Paso Cantill, Jack Paso Cantill, Jack Paso Cantill, Jack Paso Paso Carbajal, O. Henry Paso Paso Paso Paso Carlson, Madlyn Paso Paso Carlson, Robert Paso Carlton, Julia Paso Paso Carlton, Julia Paso Paso Carlton, Paul El Paso Carpaso Carpio, Robert Paso Carlton, Julia Paso Paso Carpon, Federico Juarez, Mexico Paso Carpon, Federico Juarez, Mexico
Bonaguidi, Loraine El Paso Borrego, William El Paso Borunda, Joe El Paso Bounda, Joe El Paso Boudreau, Theodore El Paso Callan, Russell, Jr. El Campon, Jack Comeron, Bruce El Campo, Glen E. El Campa, Ismael Morenci, Campbell, Doris El Campbell, Doris El Campbell, William El Canton, Anne T. El Canton, Anne T. El Canton, Anne T. El Canton, Jack El Carlson, Madlyn El Bridges, Kenneth El Paso Bridges, Kenneth El Paso Bridgers, Carolyn El Paso Britton, A. Marrene El Paso Britton, Jack El Paso Brock, Winnifred El Paso Brock, Winnifred El Paso Braso, Robert El Carpo, Federico Juarez, M Carrasco, David El Carrasco, Eliseo El	Paso Calamia, Joe El Paso Paso Calderhead, William El Paso Paso Callon, Russell, Jr. El Paso Paso Callon, Jack Odessa Paso Cameron, Bruce El Paso Paso Camp, Glen E. El Paso Paso Campa, Ismael Morenci, Ariz. Paso Campbell, Doris El Paso Canne Campbell, William El Paso D.C. Canton, Anne T. El Paso Paso Cantrill, Jack El Paso Paso Cantu, Luis Juarez, Mexico Paso Carlson, Madlyn El Paso Paso Carlson, Robert El Paso Paso Carlton, Julia El Paso Paso Carlton, Paul El Paso Carpio, Federico Juarez, Mexico Paso Carpo, Federico Juarez, Mexico
Borrego, William El Paso Borunda, Joe El Paso Boudreau, Theodore El Paso Boudreau, Theodore El Paso Boudreau, Theodore El Paso Boudreau, Theodore El Paso Bourland, Eugene El Paso Bowden, Elizabeth Fabens Bowding, Robert El Paso Boyd, Dan El Paso Boyd, Hershel Crane Boykin, Charlotte Washington, D.C. Bradbury, Anne M. El Paso Bradshaw, Margie El Paso Bradshaw, Mary Frances El Paso Bradshaw, Mary Frances El Paso Branch, William El Paso Breckenridge, Lemuel El Paso Breinges, Katherine El Paso Bridges, Kenneth El Paso Bridgers, Carolyn El Paso Britton, A. Marrene El Paso Britton, Jack El Paso Brock, Winnifred El Paso Brock, Winnifred El Paso Boullan, Russell, Jr. El Callan, Russell, Jr. El Campo, Bruse Campo, Bruse Campo, Bruse Lel Campo, Ismael Morenci, Campbell, William El Campo, Anne T. El Canton, Anne T. El Carton, Andlyn El Carlson, Madlyn El Carlson, Robert El Carpon, Federico Juarez, M Carrasco, David El Carrasco, Eliseo El	Paso Calderhead, William El Paso Paso Callan, Russell, Jr. El Paso Paso Callon, Jack Odessa Paso Cameron, Bruce El Paso abens Campo, Glen E. El Paso Campa, Ismael Morenci, Ariz Paso Campbell, Doris El Paso Crane Campbell, William El Paso Canton, Anne T. El Paso Paso Cantrill, Jack El Paso Cantill, Jack Juarez, Mexico Caplinger, Mrs. Alice El Paso Paso Carbajal, O. Henry Fabens Paso Carlson, Madlyn El Paso Carlson, Robert El Paso Carlton, Julia El Paso Carlton, Paul El Paso Carpenter, Alfred El Paso Carpilo, Federico Juarez, Mexico
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Boudreau, Theodore El Paso Bourland, Eugene El Paso Bowden, Elizabeth Fabens Bowling, Robert El Paso Boyd, Dan El Paso Boyd, Hershel Crane Boykin, Charlotte Washington, D.C. Bradbury, Anne M. El Paso Bradshaw, Margie El Paso Bradshaw, Margie El Paso Branch, William El Paso Branch, William El Paso Breckenridge, Lemuel El Paso Bridges, Katherine El Paso Bridges, Kenneth El Paso Bridges, Carolyn El Paso Britton, A. Marrene El Paso Britton, Jack El Paso Brock, Winnifred El Paso Braden El Paso Callon, Jack Camp, Glen E. El Camp, Glen E. Camp, Glen E. Campoli, Division El Camphell, Doris El Camphell, Doris El Camphell, Diris El Canton, Anne T. El Cantrill, Jack El Cantul, Luis Juarez, M Carlson, Madlyn El Carlson, Robert El Car	Paso Callon, Jack Odessa Paso Cameron, Bruce El Paso Rabens Camp, Glen E. El Paso Paso Campa, Ismael Morenci, Ariz. Paso Campbell, Doris El Paso Cance Campbell, William El Paso D.C. Canton, Anne T. El Paso Cantrill, Jack El Paso Paso Cantrill, Jack El Paso Cantu, Luis Juarez, Mexico Paso Carbajal, O. Henry Fabens Paso Carlson, Madlyn El Paso Paso Carlson, Robert El Paso Paso Carlton, Julia El Paso Paso Carlton, Paul El Paso Carpaso Paso Carponeter, Alfred El Paso Carpio, Federico Juarez, Mexico
Bowland, Eugene El Paso Bowden, Elizabeth Fabens Bowling, Robert El Paso Boyd, Dan El Paso Boyd, Hershel Crane Boykin, Charlotte Washington, D.C. Bradbury, Anne M. El Paso Bradshaw, Margie El Paso Bradshaw, Margie El Paso Branch, William El Paso Branch, William El Paso Breckenridge, Lemuel El Paso Bridges, Katherine El Paso Bridges, Kenneth El Paso Britton, A. Marrene El Paso Britton, Jack El Paso Brock, Winnifred El Paso Carraco, Bruce El Camp, Glen E. El Campa, Ismael Morenci, Campbell, Doris El Campbell, William El Cantron, Ann T. El Cantrill, Jack El Cantrill, Jack El Cantrill, Jack El Carlson, Madlyn El Carlson, Robert El Carlton, Julia El Carlton, Paul El Carpio, Federico Juarez, M Carrasco, David El Brock, Winnifred El Paso Carrasco, David El Carrasco, Eliseo El	Paso Cameron, Bruce El Paso Rabens Camp, Glen E. El Paso Campa, Ismael Morenci, Ariz. Paso Campbell, Doris El Paso Campbell, William El Paso Canton, Anne T. El Paso Cantrill, Jack El Paso Cantrill, Jack El Paso Cantrill, Jack El Paso Cantu, Luis Juarez, Mexico Paso Carlon, Robert El Paso Carlson, Madlyn El Paso Paso Carlson, Robert El Paso Carlton, Julia El Paso Carlton, Paul El Paso Carpo, Federico Juarez, Mexico Paso Carpo, Federico Juarez, Mexico Carpio, Federico Juarez, Mexico
Bowden, Elizabeth Fabens Bowling, Robert El Paso Boyd, Dan El Paso Boyd, Hershel Crane Boykin, Charlotte Washington, D.C. Bradbury, Anne M. El Paso Bradshaw, Margie El Paso Bradshaw, Mary Frances El Paso Brackenridge, Lemuel El Paso Brennan, Ann El Paso Bridges, Katherine El Paso Bridges, Kenneth El Paso Bridges, Carolyn El Paso Britton, A. Marrene El Paso Britton, Jack El Paso Brock, Winnifred El Paso Brock, Winnifred El Paso Brock, Winnifred El Paso Boyd, Dan El Paso Camp, Glen E. El Campa, Ismael Morenci, Campbell, Doris El Campbell, William El Canton, Anne T. El Canton, Anne T. El Canton, Anne T. El Canton, Luis Juarez, M Carlson, Madlyn El Carlson, Madlyn El Carlson, Robert El Carpio, Federico Juarez, M Carrasco, David El Carrasco, David El Carrasco, Eliseo El	Abens Camp, Glen E. El Paso Paso Campa, Ismael Morenci, Ariz. Paso Campbell, Doris El Paso Cantone Campbell, William El Paso D.C. Canton, Anne T. El Paso Paso Cantrill, Jack El Paso Paso Cantu, Luis Juarez, Mexico Paso Carplinger, Mrs. Alice El Paso Carbajal, O. Henry Fabens Paso Carlson, Madlyn El Paso Paso Carlson, Robert El Paso Paso Carlton, Julia El Paso Paso Carlton, Paul El Paso Carpenter, Alfred El Paso Carpio, Federico Juarez, Mexico
Bowling, Robert El Paso Boyd, Dan El Paso Boyd, Hershel Crane Boykin, Charlotte Washington, D.C. Bradbury, Anne M. El Paso Bradshaw, Margie El Paso Bradshaw, Mary Frances El Paso Branch, William El Paso Breckenridge, Lemuel El Paso Breinges, Katherine El Paso Bridges, Kenneth El Paso Bridgers, Carolyn El Paso Britton, A. Marrene El Paso Britton, A. Marrene El Paso Brock, Winnifred El Paso Brock, Winnifred El Paso Brock, Winnifred El Paso Brock Campa, Ismael Morenci, Campbell, Doris El Campbell, Villiam El Canton, Hau Luis Juarez, Morenci, Canton, Anne T. El Canton, Hau Luis Juarez, Morenci, Carlon, Halliam El Carlon, Madlyn El Carlson, Robert El Carpon, Paul El Carpon, Federico Juarez, Morenci, Carpon, Anne T. El Canton, Anne T. El Cartoni, Luis Juarez, Morenci, Carlon, Paul El Carpon, Federico Juarez, Morenci, Carpon, Anne T. El Canton, Anne T. El Canton, Anne T. El Cartoni, Jack El Carlson, Madlyn El Carlson, Robert El Carpon, Federico Juarez, Morenci, Carpon, Ismael Morenci, Campbell, Villiam El Canton, Anne T. El Canton, Anne T. El Canton, Anne T. El Cartoni, Jack El Carton, Paul El Carpon, Federico Juarez, Morenci, Carpon, Anne T. El Canton, Anne T. El Canton, Anne T. El Canton, Anne El Canton, Anne T. El Carton, Anne El Carlon, Madlyn El Carlson, Robert El Carlon, Paul El Carpon, Federico Juarez, Morenci, Al Carpon, Federico Juarez, Morenci, Al Carpon, Madlyn El Carlon, Paul El Carpon, Federico Juarez, Morenci, Al Carpon, Federico Juarez, M	Paso Campa, Ismael Morenci, Ariz. Paso Campbell, Doris El Paso Campbell, William El Paso D.C. Canton, Anne T. El Paso Cantrill, Jack El Paso Cantrill, Jack Juarez, Mexico Paso Carlon, Luis Juarez, Mexico Paso Carbajal, O. Henry Fabeus Paso Carlson, Madlyn El Paso Carlson, Robert El Paso Carlson, Robert El Paso Carlton, Julia El Paso Carlton, Paul El Paso Carpenter, Alfred El Paso Carpio, Federico Juarez, Mexico
Boyd, Hershel Crane Boydin, Charlotte Washington, D.C. Bradbury, Anne M. El Paso Bradshaw, Margie El Paso Bradshaw, Mary Frances El Paso Branch, William El Paso Breckenridge, Lemuel El Paso Brennan, Ann El Paso Bridges, Katherine El Paso Bridges, Kenneth El Paso Bridgers, Carolyn El Paso Britton, A. Marrene El Paso Britton, Jack El Paso Brock, Winnifred El Paso Brock, Winnifred El Paso Brock, Winnifred El Paso Bradshaw, Margie El Paso Canton, Anne T. El Canton, Anne T. El Canton, Anne T. El Paso Canton, Anne T. El Canton, Anne T. El Canton, Anne T. El Paso Canton, Anne T. El Canton, Anne T. El Canton, Anne T. El Paso Canton, Anne T. El Canton, Anne T. El Canton, Anne T. El Paso Canton, Anne T. El Canton, Anne T. El Canton, Anne T. El Paso Canton, Anne T. Ell Canton, Anne T. E	Arane Campbell, William El Paso D.C. Canton, Anne T. El Paso Paso Cantrill, Jack El Paso Paso Cantrill, Jack Juarez, Mexico Caplinger, Mrs. Alice El Paso Paso Carbajal, O. Henry Fabens Paso Carlson, Madlyn El Paso Paso Carlson, Robert El Paso Paso Carlton, Julia El Paso Paso Carlton, Paul El Paso Paso Carpenter, Alfred El Paso Carpillo Carpio, Federico Juarez, Mexico
Boyd, Hershel Crane Boydin, Charlotte Washington, D.C. Bradbury, Anne M. El Paso Bradshaw, Margie El Paso Bradshaw, Mary Frances El Paso Branch, William El Paso Breckenridge, Lemuel El Paso Brennan, Ann El Paso Bridges, Katherine El Paso Bridges, Kenneth El Paso Bridgers, Carolyn El Paso Britton, A. Marrene El Paso Britton, Jack El Paso Brock, Winnifred El Paso Brock, Winnifred El Paso Brock, Winnifred El Paso Bradshaw, Margie El Paso Canton, Anne T. El Canton, Anne T. El Canton, Anne T. El Paso Canton, Anne T. El Canton, Anne T. El Canton, Anne T. El Paso Canton, Anne T. El Canton, Anne T. El Canton, Anne T. El Paso Canton, Anne T. El Canton, Anne T. El Canton, Anne T. El Paso Canton, Anne T. El Canton, Anne T. El Canton, Anne T. El Paso Canton, Anne T. Ell Canton, Anne T. E	Arane Campbell, William El Paso D.C. Canton, Anne T. El Paso Paso Cantrill, Jack El Paso Paso Cantrill, Jack Juarez, Mexico Caplinger, Mrs. Alice El Paso Paso Carbajal, O. Henry Fabens Paso Carlson, Madlyn El Paso Paso Carlson, Robert El Paso Paso Carlton, Julia El Paso Paso Carlton, Paul El Paso Paso Carpenter, Alfred El Paso Carpillo Carpio, Federico Juarez, Mexico
Boykin, Charlotte Washington, D.C. Bradbury, Anne M. El Paso Bradshaw, Margie El Paso Bradshaw, Mary Frances El Paso Branch, William El Paso Breckenridge, Lemuel El Paso Breinan, Ann El Paso Bridges, Katherine El Paso Bridges, Katherine El Paso Bridges, Carolyn El Paso Britt, Harry Amarillo Britton, A. Marrene El Paso Britton, Jack El Paso Brock, Winnifred El Paso Brock, Winnifred El Paso Brock, Winnifred El Paso Brock, Winnifred El Paso Bradshaw, Margie El Paso Canton, Anne T. El Canton, El Canton, Anne T. El Canton, An	D.C. Canton, Anne T. El Paso Paso Cantrill, Jack El Paso Paso Cantu, Luis Juarez, Mexico Paso Caplinger, Mrs. Alice El Paso Paso Carlson, Madlyn El Paso Paso Carlson, Robert El Paso Paso Carlton, Julia El Paso Paso Carlton, Paul El Paso Paso Carpenter, Alfred El Paso Carpio, Federico Juarez, Mexico
Bradbury, Anne M. El Paso Bradshaw, Margie El Paso Bradshaw, Mary Frances El Paso Brach, William El Paso Breckenridge, Lemuel El Paso Breckenridge, Lemuel El Paso Bridges, Katherine El Paso Bridges, Kenneth El Paso Bridgers, Carolyn El Paso Britt, Harry Amarillo Britton, A. Marrene El Paso Bridkey, Winnifred El Paso Brock, Winnifred El Paso Bradshaw, Mary Frances El Paso Cantill, Jack El Cantu, Luis Juarez, M Caplinger, Mrs. Alice El Carbajal, O. Henry F Carlson, Madlyn El Carlson, Robert El Carpenter, Alfred El Carpenter, Alfred El Carpio, Federico Juarez, M Carrasco, David El Brock, Winnifred El Paso Carrasco, Eliseo El	Paso Cantrill, Jack El Paso Paso Cantu, Luis Juarez, Mexico Paso Caplinger, Mrs. Alice El Paso Paso Carbajal, O. Henry Fabens Paso Carlson, Madlyn El Paso Paso Carlson, Robert El Paso Paso Carlton, Julia El Paso Paso Carlton, Paul El Paso Carpenter, Alfred El Paso Carpio, Federico Juarez, Mexico
Bradshaw, Margie El Paso Bradshaw, Mary Frances El Paso Branch, William El Paso Breckenridge, Lemuel El Paso Brennan, Ann El Paso Bridges, Katherine El Paso Bridges, Kenneth El Paso Bridgers, Carolyn El Paso Britt, Harry Amarillo Britton, A. Marrene El Paso Britton, Jack El Paso Brock, Winnifred El Paso Brock, Winnifred El Paso Bradshaw, Mary Frances El Paso Cantu, Luis Juarez, M Caplinger, Mrs. Alice El Carbajal, O. Henry F Carlson, Madlyn El Carlson, Robert El Carlton, Julia El Carpenter, Alfred El Carpio, Federico Juarez, M Carrasco, David El Carrasco, David El Carrasco, Eliseo El	Paso Cantu, Luis Juarez, Mexico Paso Caplinger, Mrs. Alice El Paso Paso Carbajal, O. Henry Fabens Paso Carlson, Madlyn El Paso Paso Carlson, Robert El Paso Paso Carlton, Julia El Paso Paso Carlton, Paul El Paso Carpenter, Alfred El Paso Carpio, Federico Juarez, Mexico
Bradshaw, Mary Frances El Paso Branch, William El Paso Breckenridge, Lemuel El Paso Brennan, Ann El Paso Bridges, Katherine El Paso Bridges, Kenneth El Paso Bridgers, Carolyn El Paso Britt, Harry Amarillo Britton, A. Marrene El Paso Britton, Jack El Paso Brock, Winnifred El Paso Bradshaw, Mary Frances El Paso Carbinger, Mrs. Alice El Carbajal, O. Henry F Carlson, Madlyn El Carlson, Robert El Carlton, Julia El Carpenter, Alfred El Carpio, Federico Juarez, M Carr, William Alamogordo, Carrasco, David El Brock, Winnifred El Paso Carrasco, Eliseo El	PasoCaplinger, Mrs. AliceEl PasoPasoCarbajal, O. HenryFabensPasoCarlson, MadlynEl PasoPasoCarlson, RobertEl PasoCarlton, JuliaEl PasoPasoCarlton, PaulEl PasoCarlton, PaulEl PasoCarpenter, AlfredEl PasoCarpio, FedericoJuarez, Mexico
Brach, William El Paso Carbajal, O. Henry F Breckenridge, Lemuel El Paso Carlson, Madlyn El Brennan, Ann El Paso Carlson, Robert El Bridges, Katherine El Paso Carlton, Julia El Bridges, Kenneth El Paso Carlton, Julia El Bridgers, Carolyn El Paso Carlton, Paul El Britt, Harry Amarillo Britton, A. Marrene El Paso Britton, Jack El Paso Carrasco, David El Brock, Winnifred El Paso Carrasco, Eliseo El	Paso Carlonal, U. Henry Fabens Paso Carlson, Madlyn El Paso Paso Carlson, Robert El Paso Carlton, Julia El Paso Paso Carlton, Paul El Paso Carpenter, Alfred El Paso arillo Carpio, Federico Juarez, Mexico
Breckenridge, Lemuel El Paso Carlson, Madlyn El Brennan, Ann El Paso Carlson, Robert El Bridges, Katherine El Paso Carlton, Julia El Bridges, Kenneth El Paso Bridgers, Carolyn El Paso Britton, A. Marrene El Paso Britton, Jack El Paso Britton, Jack El Paso Brock, Winnifred El Paso Carrasco, David El Brock, Winnifred El Paso Carrasco, Eliseo El	Paso Carlson, Madlyn El Paso Paso Carlson, Robert El Paso Paso Carlton, Julia El Paso Paso Carlton, Paul El Paso Carpenter, Alfred El Paso Carpio, Federico Juarez, Mexico
Brennan, Ann El Paso Bridges, Katherine El Paso Bridges, Kenneth El Paso Bridgers, Carolyn El Paso Britt, Harry Amarillo Britton, A. Marrene El Paso Britton, Jack El Paso Brock, Winnifred El Paso Brennan, Ann El Paso Carlson, Robert El Carlton, Julia El Carlton, Paul El Carpenter, Alfred El Paso Carrio, Federico Juarez, Marrene El Paso Carrasco, David El Carrasco, Eliseo El	Paso Paso Paso Paso Paso Paso Paso Paso
Bridges, Katherine El Paso Bridges, Kenneth El Paso Bridgers, Carolyn El Paso Britton, A. Marrene El Paso Britton, Jack El Paso Brock, Winnifred El Paso Bridgers, Carolyn El Paso Carpenter, Alfred El Carpio, Federico Juarez, Marrene Carrasco, David El Carrasco, David El Carrasco, Eliseo El	Paso Carlton, Julia El Paso Paso Carlton, Paul El Paso Paso Carpenter, Alfred El Paso arillo Carpio, Federico Juarez, Mexico
Bridges, Kenneth El Paso Bridgers, Carolyn El Paso Britt, Harry Amarillo Britton, A. Marrene El Paso Britton, Jack El Paso Brock, Winnifred El Paso Brock, Winnifred El Paso Bridges, Kenneth El Paso Carpio, Faderico Juarez, M Carr, William Alamogordo, Carrasco, David El Carrasco, Eliseo El	Paso Carlton, Paul El Paso Paso Carpenter, Alfred El Paso arillo Carpio, Federico Juarez, Mexico
Britt, Harry Amarillo Britton, A. Marrene El Paso Britton, Jack El Paso Brock, Winnifred El Paso Brock, Winnifred El Paso	arillo Carpio, FedericoJuarez, Mexico
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Britton, A. Marrene El Paso Carr, William Alamogordo, Britton, Jack El Paso Carrasco, David El Brock, Winnifred El Paso Carrasco, Eliseo El	
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Brooks, Abner R. El Paso Carrera, Julius El	
Brooks, DoyleEl Paso Carrera, PhillipEl	Paso Carrera, Julius El Paso
Brower, Arline Carson, Hugh	Paso Carrera, JuliusEl Paso
Antofogoste, Chile, S.A. Carvajal, Earl REl	Paso Carrera, Julius El Paso Paso Carrera, Phillip El Paso Carson Hugh Hone Ark.
Brown, Clyde Glen Casebier, John A. Ft. Sto	Paso Carrera, Julius El Paso Paso Carrera, Phillip El Paso — Carson, Hugh Hope, Ark. S.A. Carvaial Earl R. El Paso
Santa Barbara, Mexico Casey, Doyle El	Paso Carrera, Julius El Paso Paso Carrera, Phillip El Paso — Carson, Hugh Hope, Ark. S.A. Carvajal, Earl R. El Paso Casebier, John A. Ft. Stockton
Brown, Earl, Jr El Paso Casey, Edwin El	Paso Carrera, Julius El Paso Paso Carrera, Phillip El Paso Carson, Hugh Hope, Ark. S.A. Carvajal, Earl R El Paso Casebier, John A Ft. Stockton exico Casey, Doyle El Paso
	Paso Carrera, Julius El Paso Paso Carrera, Phillip El Paso Carson, Hugh Hope, Ark. S.A. Carvajal, Earl R El Paso Casebier, John A Ft. Stockton exico Casey, Doyle El Paso
Brown, Edgar Casillas, Richard El	Paso Carrera, Julius El Paso Paso Carrera, Phillip El Paso — Carson, Hugh Hope, Ark, S.A. Carvajal, Earl R. El Paso Casebier, John A. Ft. Stockton exico Casey, Doyle El Paso Casey, Edwin El Paso Casillas, Richard El Paso
San Luis, Potosi, Mexico Casner, Mary E. El	Paso Carrera, Julius El Paso Paso Carrera, Phillip El Paso — Carson, Hugh Hope, Ark. S.A. Carvajal, Earl R El Paso — Casebier, John A Ft. Stockton exico Casey, Doyle El Paso Casey, Edwin El Paso — Casillas, Richard El Paso exico Casner, Mary E El Paso
San Luis, Potosi, Mexico Casner, Mary E. El	Paso Carrera, Julius El Paso Paso Carrera, Phillip El Paso — Carson, Hugh Hope, Ark. S.A. Carvajal, Earl R El Paso — Casebier, John A Ft. Stockton exico Casey, Doyle El Paso Casey, Edwin El Paso — Casillas, Richard El Paso exico Casner, Mary E El Paso
Brown, Lyle El Paso Casner, Mary E. El Cason, Carroll C. El Casteel, Martha El	Paso Carrera, Julius El Paso Paso Carrera, Phillip El Paso — Carson, Hugh Hope, Ark. S.A. Carvajal, Earl R El Paso Casebier, John A Ft. Stockton exico Casey, Doyle El Paso Casey, Edwin El Paso Casillas, Richard El Paso Casner, Mary E El Paso Paso Cason, Carroll C El Paso Casteel, Martha El Paso
San Luis, Potosi, Mexico Brown, Lyle El Paso Brown, Peggy, El Paso Brown, Ray Chihuahua, Mexico Casner, Mary E. El Cason, Carroll C. El Casteel, Martha El Caster, Margaret El	Paso Carrera, Julius El Paso Paso Carrera, Phillip El Paso — Carson, Hugh Hope, Ark. S.A. Carvajal, Earl R. El Paso Casebier, John A. Ft. Stockton exico Casey, Doyle El Paso Casey, Edwin El Paso Casillas, Richard El Paso exico Casner, Mary E. El Paso Paso Cason, Carroll C. El Paso Casteel, Martha El Paso exico Caster, Margaret El Paso
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Ulark, Harold D. El Paso	Davis, R. LEl Paso
Clark, Robert El Paso Clausewitz, Erlwood San Antonio	Davis, Thelma Lee Sierra Blanca
Clausewitz, ErlwoodSan Antonio	Davis, TroyLubbock
Cleaveland, Earl TEl Paso	Davisson, DonEl Paso
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Copenhaver, MaryEl Paso	Des Saulles, MargaretteLa Tuna
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Cotton, Russell	Dockray, Grace
Counts, Jack EEl Paso	Dodge, HeleneEl Paso
Cowden, RobertEl Paso	Dolman, Mrs. Mary L. El Paso
Cox, EstherEl Paso	Don, RitaEl Paso
Cozby, JoeEl Paso	Dotris, EstelleEl Paso
Crabtree, MargaretEl Paso	Donis, EsterieEr rast
Crain, H. B. El Paso	Dorris, LorisJacksonville
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Craven, Charles El Paso Cravens, Marjorie El Paso	Douglass, SamuelEl Paso
Cravens, MarjorieEl Paso	Downey, JaneEl Pasc
Crawford, JackWashington, D.C.	Drees, Betty B. El Paso
Crimen, Jenny BobEl Paso	Drehner, DorothyEl Paso
Crosby, Mrs. Ruby El Paso	Drugan, Mary KYsleta
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Crowe. EdwardPecos	Duncan, Wayne El Paso Duthie, Larry El Paso
Crump, RobertEl Paso	Duthie, Larry El Pasc
Cuen, MarioEl Paso	Duty, Eddie Mae El Paso
Curtan, E. REl Paso	Duty, LucileEl Paso
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Cuthbertson, LouisEl Paso	Earp, Mrs. Pina Mae El Paso
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Ehrenstein, EnidEl Paso	Fuentes, Charles	Εl	Paso
Elfers, Nancy El Paso	Fugate, George		
Elkin, MargaretEl Paso	Fuller, Maysel	El.	Paso
Elliot, Carrie E. El Paso			-
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Ellis, Jack El Paso Ely, Mrs. Maud El Paso Emerson, David El Paso Emerson, Richard El Paso	Gaddy James	FI	Paso
Emerson David El Paso	Gaddy, James Galbraith, Helen Galindo, Mrs. Isis	FI	Pago
Emerson Richard Fl Page	Calinda Mrs. Isis	Fi	Paso
Escajeda, LuzEl Paso	Gallagher, Ann	FI	Paso
Escudero, Enrique	Collegher Charles	FI	Paso
Mexico City Mexico	Gallagher, CharlesGallagher, Rial	FI.	Paso
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Fellabaum, GeorgeEl Paso	Gardea, Joe	.E.	Paso
Ferguson, DaveEl Paso	Gardiner, Mrs. C.	발	Paso
Feeback, Josephine El Paso Feeback, Virginia El Paso Fellabaum, George El Paso Ferguson, Dave El Paso Fernandez, Elena El Paso Fernandez, Ernesto El Paso	Garner, Ruth	발	Paso
Fernandez, ErnestoEl Paso	Gary, Wilma Garza-Pena, Lucia	-Ě!	Paso
remandez, MartinEl Paso	Garza-Pena, Lucia	-E1	P aso
Fernandez, WilliamEl Paso	Gatlin, Eula	ĿĮ.	Paso
Ferris, Mrs. EdnaEl Paso	Gavaldon, Jesus	.E.	Paso
Ferris, Mary Lee El Paso	Gehring, Alice	발.	Paso
Feuille, EdithEl Paso	Gentry, Mrs. Mary Nell	EI.	Paso
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Figueroa, WilliamEl Paso	Georges, Robert	EI.	Paso
Files, Mrs. June El Paso Filson, Robert Midland Finch, Haynes El Paso Fincher, Mrs. Rosalie El Paso	Gerwels, RichardTacom	9, .'	Wash.
Filson, RobertMidland	Gibson, Evelyn	ĿI.	Paso
Finch, HaynesEl Paso	Gibson, Jane	발.	Paso
Fincher, Mrs. RosalieEl Paso	Gill, Jack	ĿĮ.	Paso
Fino, BenEl Paso	Gilliland, Craig	ĿI.	Paso
Fino, Ben El Paso Fisher, Mrs. Lovella El Paso Fisher, Robert B. Capitan, N.M.	Gish, Charles L	.탪	Paso
Fisher, Robert BCapitan, N.M.	Given, Audrey	ĿĮ.	Paso
Fitzgerald, DeweyFt. Bliss Flauiken, JonellLamesa	Given, Mildred	EI.	Paso
Flauiken, JonellLamesa	Glass, Doris	ΞĪ.	Paso
Fleager, RoyEl Paso	Godoy, Manuel	EI.	Paso
Fleming, NilsEl Paso	Goldberg, Abe	.Ы	Paso
Flores, Louis Fabens Floyd, Lee El Paso	Goldberg, Mrs. Ada Goldfarb, William	-Fi	Paso
Floyd, LeeEl Paso	Goldfarb. William	Fi	Paso
Floyd, MarsenaEl Paso	Gonzalez, Andy	Ei.	Paso
Foester, AnnetteEl Paso	Gonzalez, Frank Ariz	-발	Paso
Fogle, Billie Marie	Gonzalez, Frank S.	Ŀ	Paso
Foote, JanetEl Paso	Gonzalez, William	.빈.	Paso
Forbes, FrankEl Paso	Goodman, Mrs. I. B	-Fi	Paso
Force, CharlotteEl Paso	Goodman, Leonard	EI.	Paso
Force, James A., Jr. El Paso	Goolsby, Myrtle	EI.	Paso
Force, James A., Jr. El Paso Foreman, William El Paso	Gordon, Stanley	EI.	Paso
Fornero, Chester CEl Paso	Gorman, John	Ŀ	Paso
Fox, RichardEl Paso	Gorman, John Gottwald, Robert Gowdy, Ray Grant, Ernestine	_El	Paso
Franco, JesusEl Paso Francy, Cartherine JEl Paso	Gowdy, Ray	Αm	arillo
Francy, Cartherine JEl Paso	Grant, Ernestine	_El	Paso
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Fresquez, Iose Ysleta			
	Graves, Raymond		Bracy
Fryer, AustinEl Paso	Graves, Raymond	El	Paso

Crayson, MargaretEl Paso	Harvey, Paul El Paso Hausman, Harvey El Paso Hawkins, Jenna Canutillo
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Green, ElizabethOdessa	Honor North RI Pago
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Gregory, Harold JGatland	Healy, JackEl Paso
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Hans, WernerMonterrey, Mexico	Henry, CecileEl Paso Herman, Julius WmEl Paso
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Hague, JamesEl Paso	Herr, RichardEl Paso
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Haigler, ClaudeEl Paso	Herring, AmeliaClint
Halbrook, Eldon Odessa Hall, Darrell El Paso	Herron, IreneEl Paso
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Hall, Frances, El Paso Hall, Robert El Paso	Hesler, JohnEl Paso
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Hamlyn, RichardEl Paso	Hilburn, NancyEl Paso
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Hammonds, ClydeEl Paso Hamrah, JoeEl Paso	Hill, Philip HLa Tuna
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Hare, DonaldEl Paso	Hobbs, Doris Lee
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Harrison, Henry El Paso	Hoover, BartleyLefors Hope, ThomasSt. Paul, Minn.
Harrison, Mrs. J. El Paso	Hornedo, Consuelo El Paso
Harshbarger, JohnEl Paso	Houser, Mrs. Winifred El Paso
Hart, James AEl Paso	Howard, ArthurPalestine
Hartford, Mary Ann. El Paso	Howard, BerylEl Paso
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Howard, Preston	Pulestine	Keltner, EdwardaEl Pas
Howell, Alfred	El Paso	Kemp, Betty JoeEl Pas
Howle, Loyle	El Paso	Kempler, WalterEl Pas
Hubbard, Edwin	El Paso	Kennedy, BettyEl Pas
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Hudson, Bill	El Paso	Kennedy, RuthEl Pas
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Hughes, Barney	El Paso	Kerr, Mary Edythe Yslet
Hughes, Sue	El Daso	Key, OrenEl Pas
Hughes, Winifred	LI Dans	King, CharlesEl Pas
Hugnes, windred	El D	King, GeorgeDalla
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Hunnicutt, Bobbie	El Paso	King, James V. El Pas
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Hunter, Lester	El Paso	King, RobertEl Pas
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Hutchins. Helen	El Paso	Kissel, MarianneEl Pas
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,		Klink, KathyleenEl Pas
Ibarra, Rafael B	El Paso	Klink, PeggyEl Pas
Ives, Herbert D.	El Paso	Kluger, JerryEl Pas
ives, littlette billiani.		Knight, KitTenah
Jackson, Mary D	El Dess	Knight, MargueriteEl Pas
		Knipps, AugustEl Pas
Jackson, Sue		Kobold, BeatriceEl Pas
James, Cecilia		Kobold, DealificeEl Fas
Jameson, Dowd		Koons, EdwardEl Pas
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Jenness, Harry		Kozloske, MarthaEi Pas
Jenness, Richard		Kranzthor, Terry El Pas
Jensen, Harry	Ft. Bliss	Krebs, JohnOdess
lob, George Elaine	El Paso	Kremith, BettyEl Pas
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Johnson, Alma		
Johnson, Haskell Lee		Lambert, CyrusEI Pas
Johnson, Mary Virginia		Lambeth, J. D. El Pas
Johnston, Joe	Granbury	Lampert, FredEl Pas
Johnstone, William		Lance, Donald
		Lane, GeorgeEl Pas
Jones, Betty Louise	Er raso	Lane, GeorgeEt Pas
Jones, Edna Marie		Lane, Ray El Pas
Jones, Elsie B		Lange, JuneEl Pas
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Jones, Grayce		La Rock, ByronEl Pas
Jones, Mrs. Louise	El Paso	Lassetter, JeanEl Pas
Jones, Mrs. O. E	El Paso	Lassetter, RobertEl Pas
Jones, WaldoDu	incan, Ariz.	Lassitter, Newton El Pas Lathrop, MarjorieHortonville, Wi Lawless, Raymond El Pas
Jones, Wm. Richard	El Paso	Lathrop, Marjorie Hortonville, Wi
Jonz, Joyce	El Paso	Lawless, RaymondEl Pas
JOHZ, JOYCE	E1 D	Lawrence, AudreyEl Pas
Jonz, JoyceIoseph. George	Ei Paso	
Joseph. George	El Paso	Leger David Chihuahua Mavid
Joseph, George Jourdan, Everitt	El Paso	Leeser, DavidChibuahua, Mexic
Joseph, George Jourdan, Everitt	El Paso	Leeser, DavidChihuahua, Mexic Lefkovitz, MildredEl Pas
Joseph, George	El Paso El Paso	Leeser, DavidChihuahua, Mexic Lefkovitz, MildredEl Pas Leib. SylviaEl Pas
Joseph, George	El Paso El Paso	Leeser, DavidChibuahua, Mexic Lefkovitz, MildredEl Pas Leib, SylviaEl Pas Leon, HeracleoEl Pas
Joseph, George Jourdan, Everitt Julien, Donald Kahl, Mrs. Margaret Kahn Louis	El Paso El Paso El Paso El Paso	Leeser, David Chibuahua, Mexic Lefkovitz, Mildred El Pas Leib, Sylvia El Pas Leon, Heracleo El Pas Lerner, Buth El Pas
Joseph, George Jourdan, Everitt Julien, Donald Kahl, Mrs. Margaret Kahn Louis	El Paso El Paso El Paso El Paso	Leeser, David Chibuahua, Mexic Lefkovitz, Mildred El Pas Leib, Sylvia El Pas Leon, Heracleo El Pas Lerner, Ruth El Pas Levenson, Sydney El Pas
Joseph, George	El Paso El Paso El Paso El Paso Temple	Leeser, David Chibuahua, Mexic Lefkovitz, Mildred El Pas Leib, Sylvia El Pas Leon, Heracleo El Pas Lerner, Buth El Pas

Lide, HenryEl Paso	McMillan, JackieFt. Bliss
Liffmann, RolfEl Paso	McNail, ElizabethEl Paso
Limon, RobertoEl Paso	McNeil, JaneEl Paso
Lind, Jack REl Paso	McRae, MarjorieEl Paso
Lind, Mrs. LillianEl Paso	McTier, FrankEl Paso
Lind, Mrs. LillianEl 1 aso	MacFarlane, SheilaEl Paso
Lindlof, Mary Louise El Paso	Macranane, SuenaEl Faso
Link, FeliceEl Paso	Machado, ManuelEl Paso
Livingston, MorganEl Paso	Macias, EliasEl Paso
Lizarraga, RomeoEl Paso	Macias, FaustinoEl Paso
Lizarraga, ServandoEl Paso	Maddox, MaudeEl Paso
Lochausen, WoodruffEl Paso	Maluf, NedEl Paso
Long, Betty Barbara El Paso	Manilell, Ida Rose El Paso
Long, Delty Darbara	
Long, HudsonDallas	Mangan, Frank El Paso
Longnecker, DorothyEl Paso	Manker, CharlesEl Paso
Longnecker, Joe BEl Paso	Manker, Hazel AnnEl Paso
Longuemare, MargueriteYsleta	Mansfield, JaneEl Paso
Look, GeorgeEl Paso	Mapel, DexterEl Paso
Lopez, JoeEl Paso	Maraman, WilliamEl Paso
Lord, Mrs. Clara El Paso	Maros, MikeFabens
Louzara, AmeliaDetroit, Mich.	
	Marston, MargaretEl Paso
Love, TomEl Paso	Martin, Harry Wm. El Paso Martin, James Robert El Paso
Lovelace, Mrs. Daisy El Paso	Martin, James Robert El Paso
Lovelace, Mrs. EthylEl Paso	Martin, Mary AliceEl Paso
Lovret, JohnEl Paso	Martin, MildredSan Simon, Ariz.
Lowe, LeRoyEl Paso	Martin, PeggyEl Paso
Lumpkin, EdgarEl Paso	Martin, RobertEl Paso
Lux, TempeEl Paso	Martin, TommyEl Paso
Lux, Tempe	Mattin, TollingEt 1 aso
Lynch, DonaldRay, Ariz.	Martinez, AmbrosioEl Paso
Lynch, FrankÉl Paso	Martinez, LuisEl Paso
Lynch, JehanneEl Paso	Martinez, Mary
Lynch Sue Jean El Paso	Martinez, Ramon El Paso
Lynch, Sue Jean El Paso Lyon, Robert El Paso	Martinez, Ramon El Paso
Lynch, Sue Jean El Paso Lyon, Robert El Paso	Martinez, Ramon El Paso Martinez, Rosita El Paso Martinez, Victor El Paso
Lynch Sue Jean El Paso	Martinez, Ramon El Paso Martinez, Rosita El Paso Martinez, Victor El Paso
Lynch, Sue Jean El Paso Lyon, Robert El Paso Lyons, Peggy El Paso	Martinez, Ramon El Paso Martinez, Rosita El Paso Martinez, Victor El Paso Mason, Ben El Paso
Lynch, Sue Jean El Paso Lyon, Robert El Paso Lyons, Peggy El Paso McAdoo, Fay R. El Paso	Martinez, Ramon El Paso Martinez, Rosita El Paso Martinez, Victor El Paso Mason, Ben El Paso Mason, Helen Huntsville, Ala.
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Lynch, Sue Jean El Paso Lyon, Robert El Paso Lyons, Peggy El Paso McAdoo, Fay R. El Paso McAdoo, Ona Mae El Paso McAllister, Warren Tuxedo	Martinez, Ramon El Paso Martinez, Rosita El Paso Martinez, Victor El Paso Mason, Ben El Paso Mason, Helen Huntsville, Ala. Massey, Robert Grapevine Masten, Frank El Paso
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Lynch, Sue Jean El Paso Lyon, Robert El Paso Lyons, Peggy El Paso McAdoo, Fay R. El Paso McAdoo, Ona Mae El Paso McAllister, Warren Tuxedo McAlmon, Peter El Paso McCabe, Donald El Paso McCall, Martha Mae El Paso McCallick, Hugh El Paso	Martinez, Ramon El Paso Martinez, Rosita El Paso Martinez, Victor El Paso Mason, Ben El Paso Mason, Helen Huntsville, Ala. Massey, Robert Grapevine Masten, Frank El Paso Mateus, Robert El Paso Maurice, James Odessa Maxon, Mrs. Orell El Paso Maxwell Norris El Paso
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Lynch, Sue Jean El Paso Lyon, Robert El Paso Lyons, Peggy El Paso McAdoo, Fay R. El Paso McAdoo, Ona Mae El Paso McAllister, Warren Tuxedo McAlmon, Peter El Paso McCabe, Donald El Paso McCall, Martha Mae El Paso McCallick, Hugh El Paso McCann, Leo Midland McCarty, Jack El Paso McCleskey, James El Paso	Martinez, Ramon El Paso Martinez, Rosita El Paso Martinez, Victor El Paso Mason, Ben El Paso Mason, Helen Huntsville, Ala. Massey, Robert Grapevine Masten, Frank El Paso Mateus, Robert El Paso Maurice, James Odessa Maxon, Mrs. Orell El Paso Maxwell, Norris El Paso Maya, Manuel El Paso Mayfield, Mrs. Ethel El Paso Mayfield, Geraldine El Paso
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Lynch, Sue Jean El Paso Lyon, Robert El Paso Lyons, Peggy El Paso McAdoo, Fay R. El Paso McAdoo, Ona Mae El Paso McAllister, Warren Tuxedo McAlmon, Peter El Paso McCabe, Donald El Paso McCall, Martha Mae El Paso McCall, Martha Mae El Paso McCann, Leo Midland McCarty, Jack El Paso McCleskey, James El Paso McConnell, Gladys El Paso McCornack, Frank El Paso McCormack, Ellen El Paso McCormack, A. W. El Paso McCormick, A. W. El Paso McCutchan, Nell El Paso McDonald, Betty El Paso	Martinez, Ramon El Paso Martinez, Rosita El Paso Martinez, Victor El Paso Mason, Ben El Paso Mason, Helen Huntsville, Ala. Massey, Robert Grapevine Masten, Frank El Paso Mateus, Robert El Paso Mateus, Robert El Paso Maurice, James Odessa Maxon, Mrs. Orell El Paso Maya, Manuel El Paso Mayfield, Mrs. Ethel El Paso Mayfield, Mrs. Ethel El Paso Mayfield, Geraldine El Paso Mayfield, William El Paso Medina, Jose El Paso Melendez, Jose El Paso Melton, John El Paso Mena, Gloria El Paso Mendoza, Cesar El Paso
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Lynch, Sue Jean El Paso Lyon, Robert El Paso Lyons, Peggy El Paso McAdoo, Fay R. El Paso McAdoo, Ona Mae El Paso McAllister, Warren Tuxedo McAlmon, Peter El Paso McCabe, Donald El Paso McCall, Martha Mae El Paso McCallister, Hugh El Paso McCann, Leo Midland McCarty, Jack El Paso McConnell, Gladys El Paso McCord, Frank El Paso McCord, Frank El Paso McCormack, Ellen El Paso McCormack, Ellen El Paso McCormick, A. W. El Paso McCotnell, Betty El Paso McDonnell, Ada El Paso McDonnell, Ada El Paso McGregor, Ruth El Paso	Martinez, Ramon El Paso Martinez, Rosita El Paso Martinez, Victor El Paso Mason, Ben El Paso Mason, Helen Huntsville, Ala. Massey, Robert Grapevine Masten, Frank El Paso Mateus, Robert El Paso Mateus, Robert El Paso Maurice, James Odessa Maxon, Mrs. Orell El Paso Maxwell, Norris El Paso Maya, Manuel El Paso Mayfield, Mrs. Ethel El Paso Mayfield, Geraldine El Paso Mayfield, William El Paso Mecce, James H. El Paso Melina, Jose El Paso Melendez, Jose El Paso Melendez, Jose El Paso Melton, John El Paso Mena, Gloria El Paso Mendoza, Cesar El Paso Mendoza, Joaquin, Chihuahua, Mexico
Lynch, Sue Jean El Paso Lyon, Robert El Paso Lyons, Peggy El Paso McAdoo, Fay R. El Paso McAdoo, Ona Mae El Paso McAllister, Warren Tuxedo McAlmon, Peter El Paso McCabe, Donald El Paso McCall, Martha Mae El Paso McCallick, Hugh El Paso McCarty, Jack El Paso McCarty, Jack El Paso McCornack, Marion El Paso McCormack, El Paso McCormack, Ellen El Paso McCormack, Ellen El Paso McCormack, Ellen El Paso McCormack, A. W. El Paso McCormack, Betty El Paso McCormack, Betty El Paso McCormack, Pauline Marfa	Martinez, Ramon El Paso Martinez, Rosita El Paso Martinez, Victor El Paso Mason, Ben El Paso Mason, Helen Huntsville, Ala. Massey, Robert Grapevine Masten, Frank El Paso Mateus, Robert El Paso Maurice, James Odessa Maxon, Mrs. Orell El Paso Maxwell, Norris El Paso Maya, Manuel El Paso Mayfield, Mrs. Ethel El Paso Mayfield, Geraldine El Paso Mayfield, William El Paso Mayfield, William El Paso Medina, Jose El Paso Medece, James H. El Paso Melendez, Jose El Paso Melendez, Jose El Paso Mena, Gloria El Paso Mendoza, Cesar El Paso Mendoza, Cesar El Paso Mendoza, Joaquin, Chihuahua, Mexico Merbeth, Richard El Paso
Lynch, Sue Jean El Paso Lyon, Robert El Paso Lyons, Peggy El Paso McAdoo, Fay R. El Paso McAdoo, Ona Mae El Paso McAllister, Warren Tuxedo McAlmon, Peter El Paso McCabe, Donald El Paso McCall, Martha Mae El Paso McCallick, Hugh El Paso McCann, Leo Midland McCarty, Jack El Paso McCleskey, James El Paso McConnell, Gladys El Paso McCormac, Marion El Paso McCormack, Ellen El Paso McCormack, Ellen El Paso McCormack, A. W. El Paso McCormick, A. W. El Paso McDonald, Betty El Paso McDonnell, Ada El Paso McGregor, Ruth El Paso McKenzie, Pauline Marfa McKinney, Doris El Paso	Martinez, Ramon El Paso Martinez, Rosita El Paso Martinez, Victor El Paso Mason, Ben El Paso Mason, Helen Huntsville, Ala. Massey, Robert Grapevine Masten, Frank El Paso Mateus, Robert El Paso Maurice, James Odessa Maxon, Mrs. Orell El Paso Maya, Manuel El Paso Mayfield, Mrs. Ethel El Paso Mayfield, Geraldine El Paso Mayfield, William El Paso Mayfield, William El Paso Medina, Jose El Paso Melendez, Jose El Paso Melton, John El Paso Mena, Gloria El Paso Mendoza, Cesar El Paso Mendoza, Joaquin, Chihuahua, Mexico Merbeth, Richard El Paso Merkin, Byron El Paso
Lynch, Sue Jean El Paso Lyon, Robert El Paso Lyons, Peggy El Paso McAdoo, Fay R. El Paso McAdoo, Ona Mae El Paso McAllister, Warren Tuxedo McAlmon, Peter El Paso McCabe, Donald El Paso McCall, Martha Mae El Paso McCall, Martha Mae El Paso McCallick, Hugh El Paso McCann, Leo Midland McCarty, Jack El Paso McCleskey, James El Paso McConnell, Gladys El Paso McCormac, Marion El Paso McCormac, Marion El Paso McCormack, Ellen El Paso McCormack, A. W. El Paso McCormick, A. W. El Paso McCormoll, Ada El Paso McDonnell, Ada El Paso McDonnell, Ada El Paso McGregor, Ruth El Paso McKenzie, Pauline Marfa McKinney, Doris El Paso McKinney, James El Paso	Martinez, Ramon El Paso Martinez, Rosita El Paso Martinez, Victor El Paso Mason, Ben El Paso Mason, Helen Huntsville, Ala. Massey, Robert Grapevine Masten, Frank El Paso Mateus, Robert El Paso Mateus, Robert El Paso Mateus, Robert El Paso Maurice, James Odessa Maxon, Mrs. Orell El Paso Maya, Manuel El Paso Maya, Manuel El Paso Mayfield, Mrs. Ethel El Paso Mayfield, Geraldine El Paso Mayfield, William El Paso Medina, Jose El Paso Medina, Jose El Paso Melendez, Jose El Paso Melton, John El Paso Mendoza, Gesar El Paso Mendoza, Gesar El Paso Mendoza, Joaquin, Chihuahua, Mexico Merbeth, Richard El Paso Merriman, LeGrand Pecos
Lynch, Sue Jean El Paso Lyon, Robert El Paso Lyons, Peggy El Paso McAdoo, Fay R. El Paso McAdoo, Ona Mae El Paso McAllister, Warren Tuxedo McAlmon, Peter El Paso McCabe, Donald El Paso McCall, Martha Mae El Paso McCall, Martha Mae El Paso McCallick, Hugh El Paso McCann, Leo Midland McCarty, Jack El Paso McCleskey, James El Paso McConnell, Gladys El Paso McCord, Frank El Paso McCormac, Marion El Paso McCormack, Ellen El Paso McCormack, Ellen El Paso McCormack, A. W. El Paso McCormick, A. W. El Paso McCotchan, Nell El Paso McDonald, Betty El Paso McDonald, Betty El Paso McGregor, Ruth El Paso McKenzie, Pauline Marfa McKinney, Doris El Paso McKinney, James El Paso McKinney, James El Paso McKinney, James El Paso	Martinez, Ramon El Paso Martinez, Rosita El Paso Martinez, Victor El Paso Mason, Ben El Paso Mason, Helen Huntsville, Ala. Massey, Robert Grapevine Masten, Frank El Paso Mateus, Robert El Paso Maurice, James Odessa Maxon, Mrs. Orell El Paso Maxwell, Norris El Paso Maya, Manuel El Paso Mayfield, Mrs. Ethel El Paso Mayfield, Mrs. Ethel El Paso Mayfield, William El Paso Mayfield, William El Paso Mecce, James H. El Paso Melendez, Jose El Paso Melon, John El Paso Melon, John El Paso Mena, Gloria El Paso Mena, Gloria El Paso Mendoza, Cesar El Paso Merbeth, Richard El Paso Merriman, LeGrand Pecos Mercalf, Juanita El Paso Mercalf, Juanita
Lynch, Sue Jean El Paso Lyon, Robert El Paso Lyons, Peggy El Paso McAdoo, Fay R. El Paso McAdoo, Ona Mae El Paso McAllister, Warren Tuxedo McAlmon, Peter El Paso McCabe, Donald El Paso McCall, Martha Mae El Paso McCall, Martha Mae El Paso McCallick, Hugh El Paso McCann, Leo Midland McCarty, Jack El Paso McCleskey, James El Paso McConnell, Gladys El Paso McCormac, Marion El Paso McCormac, Marion El Paso McCormack, Ellen El Paso McCormack, A. W. El Paso McCormick, A. W. El Paso McCormoll, Ada El Paso McDonnell, Ada El Paso McDonnell, Ada El Paso McGregor, Ruth El Paso McKenzie, Pauline Marfa McKinney, Doris El Paso McKinney, James El Paso	Martinez, Ramon El Paso Martinez, Rosita El Paso Martinez, Victor El Paso Mason, Ben El Paso Mason, Helen Huntsville, Ala. Massey, Robert Grapevine Masten, Frank El Paso Mateus, Robert El Paso Mateus, Robert El Paso Mateus, Robert El Paso Maurice, James Odessa Maxon, Mrs. Orell El Paso Maya, Manuel El Paso Maya, Manuel El Paso Mayfield, Mrs. Ethel El Paso Mayfield, Geraldine El Paso Mayfield, William El Paso Medina, Jose El Paso Medina, Jose El Paso Melendez, Jose El Paso Melton, John El Paso Mendoza, Gesar El Paso Mendoza, Gesar El Paso Mendoza, Joaquin, Chihuahua, Mexico Merbeth, Richard El Paso Merriman, LeGrand Pecos

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Meyers, LeanellLam	esa Nealon, Mrs. ElizabethEl Paso
Middleton, MarjorieEl P	aso Neece, Richard Dallas
Miller A R Fah	ens Neel lames kitch . t.l Yaso
· Miller. Mrs. E. EEl P	aso Neeley, Benton BEl Paso
Miller, FrancesEl P Miller, HarryHuntsy	aso Neeson, James T. El Paso
Miller, HarryHuntsy	ille Newman, BobEl Paso
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Miskimins, HarryEl P	aso North, Mary LouEl Paso
Miskimins Ruth El P	aso Norwood, MargaretEl Paso
Mitcham, RobertEl P	aso
Mitchell, Mrs. Fern. El P Mitchell, Mary Ann El P	aso Oden, AltanellEl Paso
Mitchell, Mary AnnEl P	aso O'Donnell, HughEl Paso
Mitcheltree, Isahelle U. F	aso Uechsner, KathleenEl Faso
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Moffett, JedEl P	aso Olds, Mrs. BlondyeEl Paso
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Montagne MarieDa	llas Oliver, EdwardEl Paso
Mooney Patricia Ann Ys	leta Oliver, JosephEl Paso
Moore, BerniceEl P	aso Olmsted, VernaDes Moines, lowa
Moore, Bert CDoniphan,	Mo. Olson, John El Paso
Moore, D. CVan H	orn O'Marron, MarthaEl Paso
Moore, HarryEl P	aso O'Neal, Kermit El Paso
Moore, JeanEl P	aso Onick, LouisEl Paso
Moore, John P. El P	aso Oppenheim, Clarence
Moore, LillianEJ P	aso Juarez, Mexico
Moore, MarianEl P	aso Oppenheim, LillianEl Paso
Moore, Richard LeeEl P	aso Ornelas, Catalina El Paso
Moore, Robert Paul El F	aso Ornelas, ManuelEl Paso
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Moran, Mary Sophia El F	aso Ortiz, Ignacio El Paso Owen, John L. Odessa
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Morris, Dorothy Faye	aso
Morris, NixonEl P	aso Page, AnnieEl Paso
Morton, AmeliaEl P	aso Pajari, KaymondBrooklyn, N.Y.
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Mueller, Emil J. El F	aso Palm, IreneEl Paso
Mueller, Joseph F. El F	aso Paredes, Felipe El Paso aso Parmelee, Mary Alyce El Paso
Mulcahy, CatherineEl F	aso Parmelee, Mary AlyceEl Paso
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Mustain, PaulEl F	aso Paul, RobertEl Paso
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	Payne, Mrs. CliffordEl Paso
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Nance, Billie LouiseEl P	
Napoles, CeciliaEl F	aso Pena, MarioLaredo
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Navarro, VistorEl F Naylor, JamesEl F	aso Penick, Robert Houston
Naylor, JamesEl F	aso Pennington, BarryGeorgetown

Perches, Albert El Paso Perez, Carlos Juarez, Mexico Perez, Maria Teresa El Paso Perez, Soledad El Paso Peterson, Dorothea El Paso Peterson, Walter El Paso Peterson, Walter El Paso Phillips, Jack El Paso Pillow, Mrs. Lucille El Paso Pitts, Howard El Paso Pitts, Richard El Paso Polliska, Elmer J. El Paso Polser, Arnim El Paso Resley, Mrs. L Reynolds, Geor Rheinheimer, fi Rica, Robert Rice, Robert Richards, John Richmond, Frai Rigdon, Doroth Rike, William Riley, Katharin Rindom, Virgil	ge
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Purkey Donivae El Paso Roman Lose	
Putnam, Mrs. Kathryn El Paso Romo, Estela	
Romo, Lillian	
Quick, BeverlyEl Paso Rosenberg, Rut	h
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Ragsdale, Mrs. Olive El Paso Rowe, Sue	
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Ramsey, DouglasEl Paso Ryals, Andrew	-
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Resley, Mrs. Louise	.El	Paso
Reynolds, George	.El	Paso
Rheinheimer, Emilie	EÌ.	Paso
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Rice, Frances	ΕÌ	
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Rice, Frances Rice, Robert Richards, John Richmond, Frank Rigdon, Dorothy Mae Rike, William Riley, Katharine K. Rindom, Virgil Rinehart, Tiffany Rister, Eugene Ritter, Robert Rivera, Facundo Rivers, James F. Roberts, Clodine Roberts, Florine Roberts, Walton C. Robinson, Gene	Ft	Rlisa
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Scott, Mrs. Lillian				
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Sears, Robert	El Paso	Stoker, Mrs. Eryline	El	Paso
Seawell, Elizabeth	El Paso	Stone, Tack	El	Paso
Segulia, Mary	Tornillo	Stormont, Mary C.	Fl	Pago
Serrano, Armando	El Peso	Stotts, Thomas	EI.	Pasa
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Shamaley, John	Li Paso	Stowe, Robert	Е	Paso
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Shapleigh, Eliot	El Paso	Stringer, William	El	Paso
Shapleigh, Robert	El Paso	Stubblefield, Jackie	Сал	utillo
Shaw, Lois Virginia	El Paso	Stull, Charles	El	Paso
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Shoppach, Charles	El Paso	Sundquist, Thelma	EJ	Paso
Shumate, Frank	LI_Paso	Swain, Alvah		
Sibley, Marjorie	Toyah	Swan, William Cole	El	Paso
Sigrist, Gloria	El Paso	Sweeney, Joe		
Silva, Hector	El Paso	Szrulyovics, Dr. Ernest	Fi	Pago
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Silver, Henrietta	FI Doso	Taney, Mulli	Ed	Paso
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Simmons, Anita Jo	naskeii	Tannich, Oscar	EI	Paso
Simon, Joe	EI Paso	Tappan, David	EI	Paso
Sims, Claude	El Paso	Taylor, C. Allen	Gain <i>e</i> :	sville
Skains, Agnes	Normangee	Teague, Mrs. Mildred Telford, Mrs. Elizabeth	El	Paso
Slauter, Lee	El Paso	Telford, Mrs. Elizabeth	EI	Paso
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Smith, Mary Frances	El Paso	Terrazas, Maria S.	E1	Dage
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Solomon, Jack	El Paso	Thomas, Romulus	El	Paso
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Tyler, Dave	Twiss, Frances	El Paso	Whitlock, Robert	El Paso
Unsell, Virginia El Paso Upperman, Joyce El Paso Upperman, Joyce El Paso Upperman, Joyce El Paso Uvalentino, Alfred El Paso Valencia, Elva El Paso Valencia, Elva El Paso Valencino, Alfred El Paso Valencino, Alfred El Paso Van Doren, Donald El Paso Vans Evers, Calvert El Paso Vans Evers, Calvert El Paso Van Trease, Mrs. R. El Paso Van Trease, Mrs. R. El Paso Vasquez, Eduardo El Paso Vasquez, Eduardo El Paso Vesquez, Mike El Paso Vesquez, Mike El Paso Vesquez, Mike El Paso Vermillion, John El Paso Vesey, Gladys El Paso Vickers, Carrie Lee El Paso Vickers, Carrie Lee El Paso Villareal, Federico Monterrey, Mexico Villareal, Rodolfo Monterrey, Mexico Vomocil, Mrs. Sallie El Paso Walker, Clarence M. El Paso Walker, Rosemary El Paso Ward, Oksar El Paso Ward, Oksar El Paso Ward, Oksar El Paso Ward, Oksar El Paso Werley, Richard El Paso Webel, Lewis El Paso Webel, Lewis El Paso Wechel, Lewis El Paso West, Dony S. Ft. Bliss West, Dorothy El Paso West, Louse El Paso West, Lizabeth Et Blss West, Dorothy El Paso West, Mingaret El Paso West, Mingaret El Paso Whisams, Athalie N. Carles S. Williams, Charles — Tonkawa, Okla. Williams, Cherrude — Villiams, Ed Avernon Williams, Charles — Villiams, Charles — Villiams, Edd — Vernon Williams, Charles — Villiams, Cherrude —	Tyler, Dave	El Paso	Wilbourn, Martha	El Paso
Upperman, Joyce				
Upperman, Joyce El Paso Valdez, Mrs. Nell G. El Paso Valencia. Elva El Paso Valencia. Alfred El Paso Valencia. Alfred El Paso Valencia. Alfred El Paso Van Doren, Donald El Paso Van Doren, Donald El Paso Van Evers, Lalvert El Paso Van Evers, Calvert El Paso Van Evers, Calvert El Paso Van Trease, Mrs. R. El Paso Vasquez, Eduardo El Paso Vasquez, Mike El Paso Vasquez, Mike El Paso Vesquez, Mike El Paso Vermillion, John El Paso Vermillion, John El Paso Vickers, Carrie Lee El Paso Vigli, Victor El Paso Villareal, Rodolfo Monterrey, Mexico Villareal, Rodolfo Monterrey, Mexico Vomocil, Mrs. Sallie El Paso Walker, Clarence M. El Paso Walker, Lytle El Paso Walker, Rosemary El Paso Walker, Rosemary El Paso Walker, Rosemary El Paso Ward, Oscar El Paso Ward, Francis El Paso Ward, Oscar El Paso Webl, Llewis El Paso Webl, Lewis El Paso Webl, Herman E	Unsell Virginia	_ El Paso		
Valdez, Mrs. Nell G. El Paso Valencia, Elva El Paso Valencia, Elva El Paso Valencia, Elva El Paso Valencia, Elva El Paso Van Doren, Donald El Paso Van Doren, Donald El Paso Vans Evers, LaFrance El Paso Vans Evers, Calvert El Paso Vans Evers, Calvert El Paso Van Trease, Mrs. R. El Paso Vasquez, Eduardo El Paso Vasquez, Mike El Paso Vega, Anita El Paso Vega, Anita El Paso Vega, Anita El Paso Vega, Anita El Paso Vesey, Gladys El Paso Vickers, Carrie Lee El Paso Vigil, Victor El Paso Villareal, Federico Monterrey, Mexico Villareal, Rodolfo Monterrey, Mexico Villareal, Rodolfo Monterrey, Mexico Villareal, Federico Monterrey, Mexico Villareal, Rodolfo Monterrey, Mexico Villareal, Federico Monterrey, Mexico Villareal, Rodolfo Monterrey, Mexico Villareal, Federico Monterrey, Mexico Villareal, Rodolfo Monterrey, Mexico Villareal, Rodolfo Monterrey, Mexico Villareal, Federico Monterrey, Mexico Villareal, Rodolfo Monterrey, Mexico Villareal, Federico Monterrey, Williams, Eda Villiams, Edd Vernon Williams, Edaroy El Paso Williams, Lelaroy El Paso Williams,	Unnerman Lovce	El Paso	Williams Athelie N	El Paso
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Warren, Hosea Hico Watzke, Donald El Paso Weaver, Louise E. El Paso Webb, Lily El Paso Webel, Herman El Paso Webel, Lewis El Paso Webler, Harold El Paso Weiller, Harold El Paso Wentz, Frank El Paso Werley, Richard El Paso West, Dorothy El Paso West, Dorothy El Paso West, Margaret El Dorado, Ark. Woodd, Mamie El Dorado, Ark. Wooddey, Dorothy El Paso Woodrow, Joanna El Paso Woods, Margaret El Paso Woods, Margaret El Paso Worle, Fred El Paso Wright, John L. El Paso Wright, Margaret El Paso Wright, Margaret El Paso Wright, Stanley Monahans Worley, Richard El Paso West, Dorothy El Paso West, Dorothy El Paso West, Dorothy El Paso West, Isligabeth Ft. Bliss West, Joseph V. El Paso West, Margaret El Paso West, Margaret El Paso Whitaker, Mary El Paso Zlabovsky, Vera El Paso Whitaker, Mary El Paso	Wardy, Jim	El Paso	Wood, Harry David	El Paso
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Sackett, Mrs. BerniceEi Paso	Thompson, Marjorie El Paso Thornton, J. C El Paso Threadgill, Mrs. Edythe El Paso Tiller, Mrs. Lela El Paso Tomlinson, Elizabeth El Paso Tompkins, Dorothy El Paso Tompkins, Dorothy El Paso
Sackett Hazel El Paso	Inreadgil, Mrs. EdytheEl Paso
Saffold, Marian El Paso Safford, Mrs. Helen El Paso	Tiller, Mrs. LelaEl Paso
Safford, Mrs. Helen	Tomlinson, ElizabethEl Paso
Salem, Fred El Paso	Tompkins, DorothyEl Paso
Salyer, Mrs. Rose	
Sandoval, IreneEl Paso	Treat, DeanEl Paso
Savage, LucilleEl Paso	Turner, ArthurRogers Tyler, DaveEl Paso
Schneider, Louis Washington, D.C.	Tyler, DaveEl Paso
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Seddon, CarrieEl Paso	Unsell, VirginiaEl Paso
Shamaley, JohnEl Paso	
Seddon, Carrie El Paso Shamaley, John El Paso Shannon, Mrs. Jennie Ysleta	Valdez, Mrs. NellEl Paso
Shaw, Burrell #1 Paso	Vermillion, JohnEl Paso Vomocil, FrankEl Paso
Shaw, Lois Virginia El Paso	Vomocil, FrankEl Paso
Shaw, Lois Virginia El Paso Sheid, Wallace El Paso	
CL: Munical El Dece	Wainwright, CharlesEl Paso
Shoopman, BillieOdessa	Walker, John AEl Paso
Shuman, Mrs. M. WEl Paso	Walser, J. FEl Paso
Shopman, Billie Odessa Shuman, Mrs. M. W. El Paso Silva, Jose El Paso Silva, Roy El Paso	Ward, OscarEl Paso
Silva, RoyEl Paso	Weaver, DorisEl Paso

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Webel, Herman El Paso
Webel, Kenneth El Paso
Weber, Mrs. Helen El Paso
Wehner, William El Paso
Weiller, Harold J. El Paso
Welch, Elvin C. El Paso
Werley, Richard El Paso
Werley, Richard El Paso
West, Dorothy El Paso
White, Betty Nell El Paso
White, Emily C. El Paso
White, Emily C. El Paso
Whitington, Jess El Paso
Williams, Frances Edna El Paso
Williams, Frances Edna El Paso
Williams, Arthur El Paso
Williams, Charley Dee El Paso
Williams, Evelyn Ann Springer, N.M.
Williams, Mrs. Neva El Paso

Williams, Mrs. Rena El Williamson, Richard El Willie, Winifred El	Pa50
Willis, MarshallEl Wilmoth, Wilma AnneEl	Paso
Wilson, Mrs. Dorothy P. El	Paso
Wilson, GordonEl Wilson, LorraineEl	Paso
Wilson, LouiseEl Wilson, Mrs. MarthaEl	Paso
Wilson, Mrs. Mildred El Woelber, William El	Paso
Wood, Mamie Lee El Dorado Woodruff, Mrs. RuthE	, Ark.
Woods, Fred El Worthington, Mrs. Eliz El	Paso
Wosika, Leon El Wright, Margaret	Paso
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STATISTICAL SUMMARIES

Students

	Lon	Long Session, 1938-1939		Long Session 1939-1940		
	Men	Worner	Total	Mon	Women	Total
Engineering						
Postgraduates	2	0	2	0	0	. 0
Seniors	31	0	31	32	0	32
Juniors	2 9	0	29	44	0	44
Sophomores	77	0	77	75	0	75
Freshmen	140	0	140	126	0	126
Non-credits	0	0	0	0	0	0
Total	279	0	279	277	0	277
Academic						
Postgraduates	6	15	21	10	22	32
Seniors	34	91	125	56	79	135
Juniors	58	66	124	60	81	141
Sophomores	78	97	175	97	141	238
Freshmen	163	183	346	199	174	373
Non-credits	27	11	38	11	16	27
Total	366	463	829	433	513	946
Total Individual Students	645	463	1,108	710	513	1,223
	Summer Session, 1939		Summer Session 1940		n 1940	
	Men	Women	Total	Men	Women	Total
Students registered in the first term	154	247	401	228	264	492
Students registered in the second term	140	154	294	148	165	313
Total	294	401	695	376	429	805
Total Individual Students in the Summer Session	195	282	477	276	311	587

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