

BULLETIN

of the

Texas

COLLEGE OF MINES

and **METALLURGY**

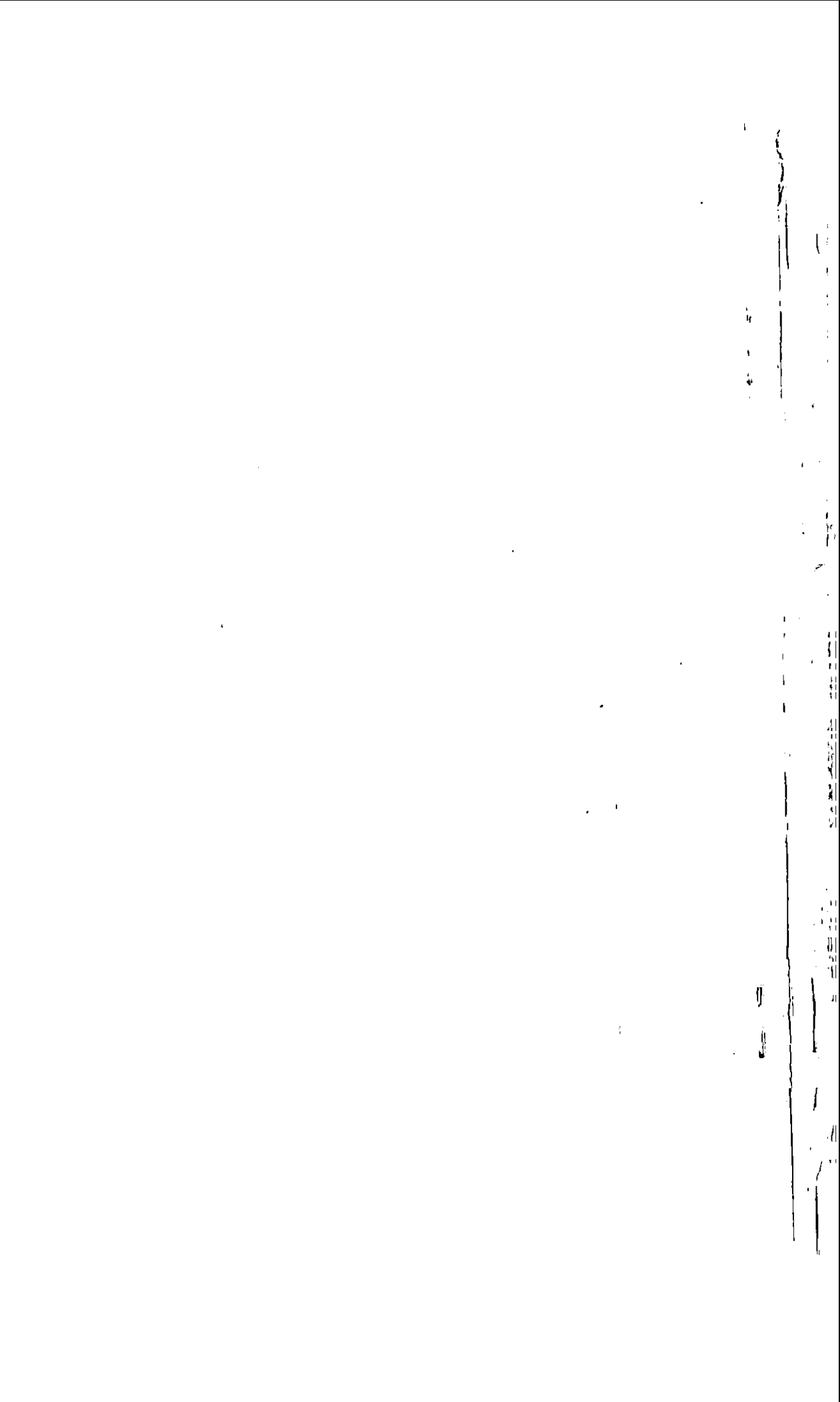
(A Branch of The University of Texas)

El Paso, Texas

**LONG SESSION
CATALOGUE
NUMBER
for
1946-1947**

With Announcements for
1947-1948

**TWO DIVISIONS . . . Arts and Sciences
Engineering**



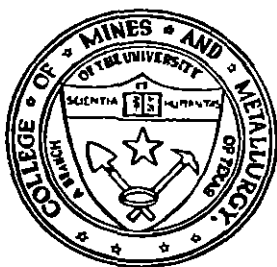
College of Mines and Metallurgy
(A BRANCH OF THE UNIVERSITY OF TEXAS)

El Paso, Texas

MEMBER

of

Texas Association of Colleges
Southern Association of Colleges



Volume XXXI

December, 1946

Number 4605

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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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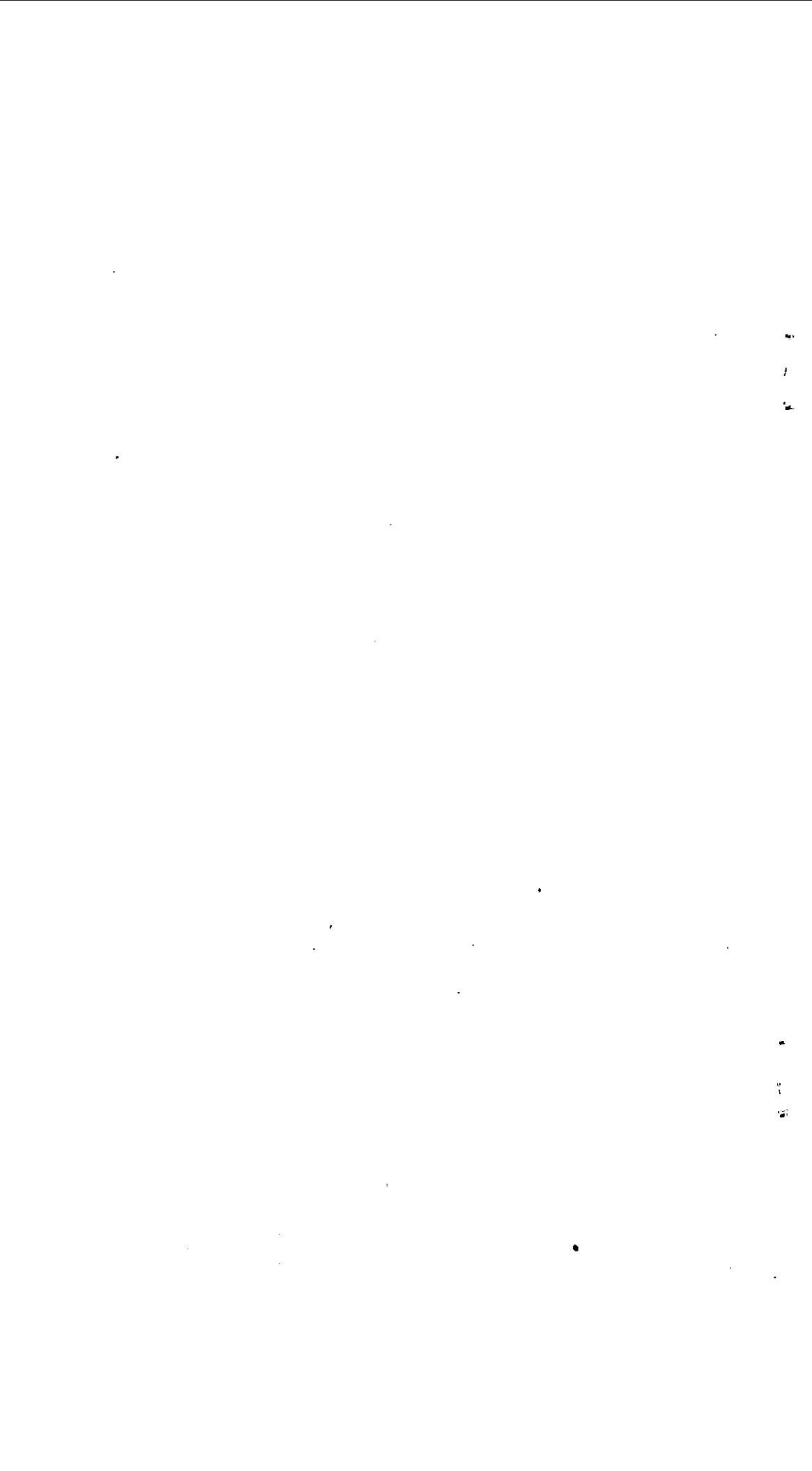
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BOARD OF REGENTS

OFFICERS

DUDLEY K. WOODWARD, *Chairman*
DAVID M. WARREN, *Vice-Chairman*
BETTY ANNE THEDFORD, *Secretary*

MEMBERS

Terms Expire January, 1947

W. SCOTT SCHREINER Kerrville
ORVILLE BULLINGTON Wichita Falls
W. H. SCHERER Houston

Terms Expire January, 1949

D. F. STRICKLAND Mission
DUDLEY K. WOODWARD Dallas
DAVID M. WARREN Panhandle

Terms Expire January, 1951

C. O. TERRELL Fort Worth
E. E. KIRKPATRICK Brownwood
EDWARD B. TUCKER Nacogdoches

STANDING COMMITTEES

ATHLETICS: Kirkpatrick, Schreiner, Warren.
AUDITING: Scherer, Schreiner, Warren.
BUDGET: Strickland, Tucker, Kirkpatrick.
BUILDINGS AND GROUNDS: Tucker, Kirkpatrick, Bullington.
COLLEGE OF MINES AND METALLURGY: Schreiner, Tucker, Warren.
COMPLAINTS AND GRIEVANCES: Warren, Strickland, Scherer.
EXECUTIVE: Woodward, Strickland, Tucker.
FINANCE: Scherer, Schreiner, Warren.
LAND: Bullington, Warren, Woodward.
LEGISLATIVE: Woodward, Bullington, Tucker.
LIBRARY: Kirkpatrick, Warren, Tucker.
MCDONALD OBSERVATORY VISITING: Kirkpatrick, Schreiner, Woodward.
MEDICAL BRANCH: Terrell, Bullington, Scherer.
MUSEUM: Bullington, Tucker, Kirkpatrick.
PATENTS: Strickland, Bullington, Warren.
PUBLIC RELATIONS: Terrell, Tucker, Strickland.
BOARD FOR LEASE OF UNIVERSITY LANDS: W. Scott Schreiner, C. O. Terrell,
Bascom Giles, Commissioner of the General Land Office (*ex-officio*).

1947

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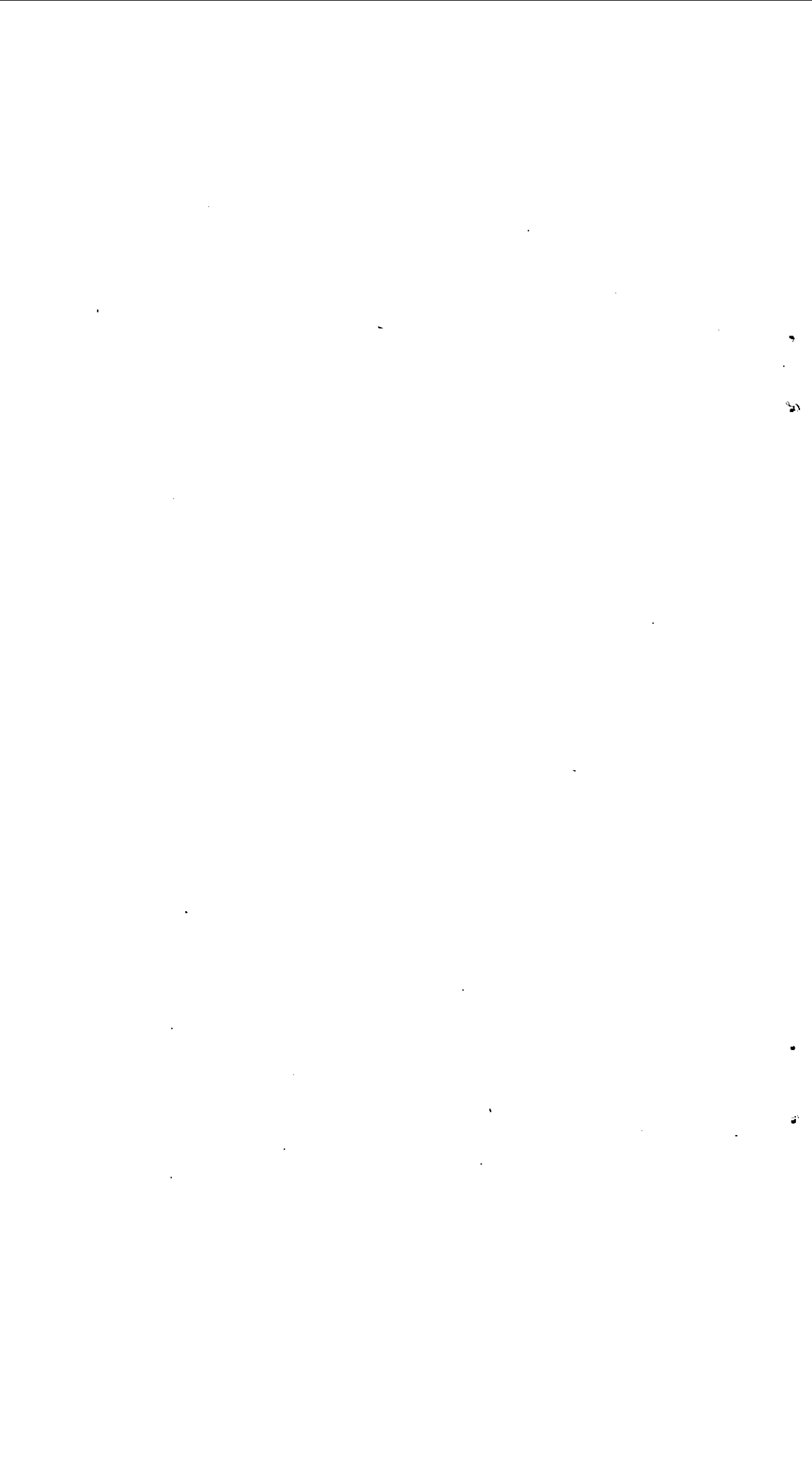
CALENDAR

1947

- SEPTEMBER 15, MONDAY. Condition, advanced standing, and postponed examination. Requests must be in the office of the Registrar four days in advance.
- SEPTEMBER 16, TUESDAY. Faculty registration conference at 2 P.M.
- SEPTEMBER 17-20, WEDNESDAY-SATURDAY. Freshman week.
- SEPTEMBER 17, WEDNESDAY. Freshman convocation, 9:00 A.M., Holliday Hall.
- SEPTEMBER 17, WEDNESDAY. Immediately following convocation freshman compulsory examinations will be given (instructions regarding examinations will be given at freshman convocation).
- SEPTEMBER 18, THURSDAY. Continuation of freshman examinations, 8:30 A.M. and 1:30 P.M.
- SEPTEMBER 18, THURSDAY. Physical examinations. Main 30 for women and Holliday Hall for men. A physical examination is required of each student who is registering for the first time.
- SEPTEMBER 19, FRIDAY. Completion of physical examinations for men and women.
- SEPTEMBER 20, SATURDAY. Compilation of freshman reports.
- SEPTEMBER 22, SATURDAY. Registration of freshmen (students with 29 semester hours or less).
- SEPTEMBER 23, TUESDAY. Registration of upper classmen (students with 30 semester hours or more).
- SEPTEMBER 24, WEDNESDAY. Classes begin.
- NOVEMBER 14, FRIDAY. Mid-semester reports.
- NOVEMBER 27-29, THURSDAY-SATURDAY. Thanksgiving holidays.
- DECEMBER 20, SATURDAY. Christmas recess begins at the close of the last class on Saturday.

1948

- JANUARY 5, MONDAY. Classes resumed.
- JANUARY 5-14, MONDAY-WEDNESDAY. Preregistration conference period for second semester.
- JANUARY 22-29, THURSDAY-THURSDAY. Final examinations for first semester.
- JANUARY 29-31, THURSDAY-SATURDAY. Freshman week.
- JANUARY 29, THURSDAY. Freshman convocation, 9:00 A.M., Holliday Hall.
- JANUARY 29, THURSDAY. Immediately following convocation freshman compulsory examinations will be given.
- JANUARY 30, FRIDAY. Grade day.
- JANUARY 30, FRIDAY. Physical examinations. Main 30 for women and Holliday Hall for men. A physical examination is required of each student who is registering for the first time.
- JANUARY 31, SATURDAY. Completion of physical examinations.
- FEBRUARY 4, WEDNESDAY. Registration of freshmen (students with 29 semester hours or less).
- FEBRUARY 5, THURSDAY. Registration of upper classmen (students with 30 semester hours or more).
- FEBRUARY 6, FRIDAY. Classes begin.
- FEBRUARY 7, SATURDAY. Condition, postponed, and advanced standing examinations. Request must be in the office of the Registrar four days in advance.
- MARCH 27, SATURDAY. Mid-semester reports.
- MARCH 26-29, FRIDAY-MONDAY. Easter holidays.
- MAY 8, SATURDAY. Major examinations.
- MAY 21-28, FRIDAY-FRIDAY. Final examinations for second semester.
- MAY 29, SATURDAY. Grade day.
- MAY 31, MONDAY. Commencement.



COLLEGE OF MINES AND METALLURGY

ADMINISTRATIVE OFFICERS

- Dossie Marion Wiggins, Ph.D., *President*.
B.A., Simmons, 1919; M.A., Yale, 1925; Ph.D., 1930; LL.D., Hardin-Simmons, 1948.
- Charles Alexander Puckett, M.A., *Dean of Arts and Sciences*.
- Eugene McRae Thomas, M.S., *Dean of Engineering*.
- Judson F. Williams, M.A., *Dean of Student Life*.
- Cordelia Caldwell, M.A., *Dean of Women*.
- John Thomas Haney, B.A., *Registrar*.
B.A., Hardin-Simmons, 1931.
- Marshall Lee Pennington, B.B.A., *Business Manager*.
B.B.A., Texas, 1935.
- Baxter Polk, B.S., *Librarian*.
B.A., Hardin-Simmons, 1935; B.S. (Library Science), Oklahoma, 1936.
- William S. Strain, M.S., *Curator of Museum*.*
- Mathew Henry Thomlinson, B.S., *Acting Curator of Museum*.
B.S., U.S. Military Academy, 1904; Colonel, U.S. Army, Rtd.
- Burt Franklin Jenness, M.D., *Health Officer*.
- Mrs. Lovella Fisher, M.A., *Director of Dormitories*.
B.A., Texas College of Mines, 1940; M.A., 1946.
- Mrs. Dora McCarver, B.A., *Social Director of Worrell Hall*.
B.A., Baylor, 1908.

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.
- Jack Camp Curtice, *Professor of Physical Education*.
B.A., Transylvania, 1930; M.A., Columbia, 1938.
- Floyd Emmett Farquhar, *Professor of Education*.
B.S., Miami, 1920; M.A., Chicago, 1921; D.Ed., Texas, 1942.
- John Fraser Graham, *Professor of Mining and Metallurgy*.
B.S., Michigan College of Mining and Technology, 1905; E.M., 1924.
- Wade James Hartrick, *Professor of Economics and Business Administration*.
B.A., Texas Technological College, 1929; M.B.A., Texas, 1941.
- Edwin John Knapp, *Professor of Mathematics and Physics*.
Ph.B., Wisconsin, 1921; Ph.D., 1931.
- William Walter Lake, *Professor of Chemistry*.
B.S., Ohio State, 1913; M.S., 1921; Ph.D., Chicago, 1941.
- 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*.
U.A., New York University, 1919; M.A., 1920; Ph.D., 1923.
- Edgar Thomas Ruff, *Professor of Modern Languages*.
B.A., Northwestern, 1930; M.A., 1931; Ph.D., Texas, 1941.

*Absent on leave, 1946-1947.

Charles Leland Sonnichsen, *Professor of English.*

B.A., Minnesota, 1924; M.A., Harvard, 1927; Ph.D., 1931.

Eugene McRae Thomas, *Professor of Mining Engineering.*

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

John Leroy Waller, *Professor of History.*

B.S., Oklahoma, 1923; M.A., Colorado, 1925; Ph.D., Texas, 1929.

Associate Professors

Thomas Crogard Barnes, *Associate Professor of Mathematics.*

B.A., Hardin-Simmons, 1933; M.S., Brown, 1936.

Haldeen Braddy, *Associate Professor of English.*

B.A., East Texas State Teachers College, 1928; M.A., Texas, 1929; Ph.D., New York University, 1934.

Floyd Archie Decker, *Associate Professor of Engineering.*

B.S. (Electrical Engineering), Kansas State College, 1927; E.E., 1932; M.S.E., Michigan, 1945.

Pearl Whitfield Durkee, *Associate Professor of Physics.*

B.A., Acadia University, 1903; B.S., (Electrical Engineering), McGill, 1906; M.S., Cornell, 1935.

Gladys Gregory, *Associate Professor of Government.*

B.A., Southwestern, 1915; M.A., Texas, 1926; Ph.D., 1937.

Gene Leclair Hemmle, *Associate Professor of Music.*

B.M., Southern Methodist University, 1937; M.A., Columbia, 1946.

Lloyd Alvino Nelson, *Associate Professor of Geology.*

E.M., Texas College of Mines, 1916; M.S. (Geology), Colorado, 1929; Ph.D., 1937.

Eugene O. Porter, *Associate Professor of History.*

B.A., Ohio Wesleyan, 1920; M.A., Ohio State, 1936; Ph.D., 1939.

John H. D. Spencer, *Associate Professor of Economics.*

B.A., Florida, 1941; M.A., 1942.

Rex Wallace Strickland, *Associate Professor of History.*

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

Judson F. Williams, *Associate Professor of Journalism.*

B.A., Hardin-Simmons, 1934; M.A., Missouri, 1940.

Assistant Professors

William Henry Ball, *Assistant Professor of Chemistry.*

B.S., Chicago, 1922; M.S., Iowa State College, 1925.

Norma Egg, *Assistant Professor of English.*

B.A., Texas, 1913; M.A., 1928.

Jesse Apley Hancock, Jr., *Assistant Professor of Chemistry.**

B.S., Conzaga University, 1939; M.S., 1940.

Lehman Cates Hutchins, *Assistant Professor of Psychology.*

B.S., Washington, 1934; M.A., Columbia, 1939.

Burt Franklin Jenness, *Assistant Professor of Biological Sciences.*

M.D., Dartmouth, 1899; Lt. Comdr. M.C., U.S. Navy, Ret.

William Howard McDill, *Assistant Professor of Engineering.*

B.S. (Civil Engineering), Missouri School of Mines, 1935.

Leon Denny Moses, *Assistant Professor of English.*

B.A., Columbia, 1923; M.A., 1924.

William Harvey Norman, *Assistant Professor of Chemistry.*

B.A., Rice, 1938; M.S., 1943.

Vera Wise, *Assistant Professor of Design and Interior Decorating.*

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

*Absent, on leave, 1946-1947.

Instructors

- Charles B. Battenberg, *Instructor in Engineering.*
B.S., Wittenberg College, 1935.
- Lelah Black, *Instructor in Business Administration.*
B.Ed., Western Illinois State Teachers College, 1933; M.A., Iowa, 1942.
- A. Blanchard Boyer, *Instructor in Music.*
B.M., Baylor, 1938.
- Jane Bruce, *Instructor in Mathematics.*
B.A., Mills College, 1946.
- Cordelia Caldwell, *Instructor in Mathematics.*
B.S., Arizona, 1926; M.A., 1928.
- Nilda Castro-Perea, *Instructor in Modern Languages.*
B.S., Texas, 1946.
- Mrs. Minnie Clifton, *Instructor in Education.*
B.A., Texas College of Mines, 1936; M.A., Sul Ross State Teachers College, 1939.
- Ralph Monroe Coleman, *Instructor in Engineering.*
B.S., North Texas State Teachers College, 1936; M.S., 1937.
- Ellen Winifred Coogler, *Instructor in Art.*
B.S., Sul Ross State Teachers College, 1940.
- Mrs. Bertha Floyd Crowell, *Instructor in Sociology.*
B.A., Smith College, 1933; M.S., Columbia, 1943.
- Charles Wayne Edland, *Instructor in English.*
B.A., Illinois Wesleyan, 1933; M.A., Illinois, 1943.
- Nelle Trew Francis, *Instructor in English.*
B.A., Hardin-Simmons, 1934; M.A., Texas, 1942.
- Mrs. Gretchen R. Gabriel, *Instructor in Modern Languages.*
B.A., Stanford, 1937; M.A., 1939.
- Mrs. Sylvia Lieb Galatzan, *Instructor in Chemistry.*
B.S., Texas College of Mines, 1944.
- Mrs. Marguerite Dozier Gordon, *Instructor in English.*
B.A., Vanderbilt, 1917; M.A., George Peabody College, 1941.
- Joseph Hopkins James, Jr., *Instructor in English.**
B.A., Alabama, 1929; M.A., 1931.
- Mrs. Clarice Matthews Jones, *Instructor in Speech.*
B.S., West Texas State Teachers College, 1933; M.A., Texas State College for Women, 1943.
- Roy Lee Jones, *Instructor in Physical Education.*
B.S., West Texas State Teachers College, 1941.
- Mrs. Julia Ida Kane, *Instructor in Physical Education.*
B.A., North Dakota, 1919; M.A., Arizona, 1930.
- Mrs. Sybil Bender Lubarr, *Instructor in Speech.*
B.F.A., Texas, 1941; M.F.A., Yale, 1943.
- Robert H. Mayfield, *Instructor in Education.*
D.S., Texas, 1934; M.Ed., Texas, 1941.
- Mrs. Mary Brown McCarty, *Instructor in English.*
B.A., Texas College of Mines, 1944; M.A., 1946.
- Oscar H. McMahan, *Instructor in Physics.*
B.S., Oklahoma Agricultural and Mechanical College, 1928; M.S., 1937; M.S., Arizona, 1943.
- John Hamilton McNeely, *Instructor in History.*
B.A., American University, 1938; M.A., George Washington, 1939.
- Mrs. Alma Pickens Miller, *Instructor in Mathematics.*
B.A., Texas College of Mines, 1945.
- Ross Moore, *Instructor in Physical Education.*
B.A., Texas College of Mines, 1939.
- Mrs. Margaret M. Mullen, *Instructor in English.*
B.A., Lawrence College, 1918; M.A., Wisconsin, 1920.

*Absent on leave, 1946-1947.

- James S. Nicoll, *Instructor in Education*.
B.A., St. Ambrose College, 1937; M.A., University of Southern California, 1943.
- Mrs. Harriet P. Palmer, *Instructor in English*.
B.A., Kalamazoo College, 1939.
- Pearl Olive Ponsford, *Instructor in English*.
B.A., Wellesley, 1919; M.A., University of Southern California, 1930; Ph.D., 1936.
- Mrs. Louise Fletcher Resley, *Instructor in Mathematics*.
B.A., Texas College of Mines, 1939.
- Mrs. Bertha Reynolds, *Instructor in Education*.
B.A., Colorado, 1921; M.A., 1922.
- Allen Sayles, *Instructor in Economics*.
B.A., Chicago, 1910.
- Charles Wesley Scarritt, *Instructor in Journalism*.
B.J., Missouri, 1939.
- Robert Louis Schumaker, *Instructor in Mathematics*.
B.S., Texas College of Mines, 1943.
- Joseph Wallace Scruggs, *Instructor in Chemistry*.
B.S., Texas Agricultural and Mechanical College, 1942.
- Charles Eugene Senning, *Instructor in Music*.
B.S., Texas Technological College, 1945; M.Ed., 1946.
- Mrs. Audrey Louise Smith, *Instructor in Physical Education*.
B.S., North Texas State Teachers College, 1944.
- Mrs. Stella M. Smith, *Instructor in Business Administration*.
B.A., Bowling Green College of Commerce, 1938; M.S., Tennessee, 1942.
- Wallace Snelson, *Instructor in Journalism*.
B.A., Texas College of Mines, 1946.
- Urbici Soler, *Instructor in Art*.
Academy of Fine Arts, Barcelona; Master Student, Academy of Fine Arts, 1917.
- William S. Strain, *Instructor in Geology; Curator of Museum*.
B.S., West Texas State Teachers College, 1932; M.S., Oklahoma, 1937.
- Mrs. Edythe Threadgill, *Instructor in Mathematics*.
B.A., Texas College of Mines, 1942.
- Dale Barnard Waters, *Instructor in Physical Education*.
B.A., Florida, 1935.
- William Fletcher Webb, *Instructor in Modern Languages*.
B.A., Texas, 1927; M.A., 1934.
- Samuel Anthony Wright, Jr., *Instructor in Biological Sciences*.
B.S., New Mexico, 1944.

Administrative Assistants

- Mrs. Monica G. Adams, *Assistant (Part-time) in the Museum*.
- Lu Venia Arnold, *Transcript Clerk, Office of the Registrar*.
B.A., Texas College of Mines, 1940.
- Grace L. Bogardus, *Assistant Bookkeeper and Voucher Clerk, Office of the Business Manager*.
- Mrs. Mary Louise Collins, *Secretary (Part-time) to the Dean of Engineering*.
- Mrs. Margaret L. Fugate, *Secretary to the Faculty*.
- Myrtie Dora Gray, *Resident Nurse*.
- Dorothy Grace Hahn, *Secretary and Clerk, Office of the Business Manager*.
B.A., Texas College of Mines, 1943.
- Mrs. Isabel Abdou Hatchett, *Assistant (Part-time), Office of the Business Manager*.
B.A., Texas College of Mines, 1933.
- Mrs. Nell Hargrove Ives, *Reference Librarian*.

- Mrs. Charline Chavez, *Secretary to the Dean of Engineering and the Dean of Student Life.*
- Mrs. Annie Marie Mitchelmore, *Switchboard Operator.*
- Mary Newell, *Secretary and Filing Clerk, Office of the Registrar.*
B.A., Texas College of Mines, 1945.
- Mrs. Doris F. Richter, *Recorder, Office of the Registrar.*
- Mrs. Frances Smith Stevens, *Secretary to the President.*
- Mrs. Nell K. Thompson, *Loan Librarian.*
- Mrs. Laura M. Tipton, *Clerk, Office of the Business Manager.*

Consultants in Radio Education

- Karl O. Wyler.
- Virgil Hicks, *Instructor.*

Critic Teachers in Elementary Teacher Training (El Paso Public Schools)

- Mrs. Esther Atkinson.
B.A., Texas College of Mines, 1939.
- Miss Martha Ewin.
B.A., Texas College of Mines, 1934.
- Mrs. Anna Louise McCorry.
B.S., Sul Ross State Teachers College, 1946.
- Mrs. Marian Nicoll.
B.A., Texas College of Mines, 1938.
- Miss Evelyn Wisdom.
B.S., Southwest Texas State Teachers College, 1938.

Critic Teachers in High School Teacher Training (El Paso Public Schools)

- Mrs. Anne Canton.
B.S., Sul Ross State Teachers College, 1932.
- Miss Lena Cole.
M.A., Texas Technological College, 1936.
- Mrs. Adella Geer.
B.A., Texas College of Mines, 1939.
- Miss Elsie Reeves.
B.A., Mary Hardin Baylor, 1935.

GENERAL INFORMATION

HISTORY

In 1913 the Thirty-third Legislature in regular session passed an act creating the State School of Mines and Metallurgy, to be located in El Paso. The act provided that the School of Mines should be placed under the control of the Board of Regents of The University of Texas. In 1919 an act of the Thirty-sixth Legislature made the school 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 El Paso Military Institute grounds and buildings. This provision was met and the school was formally opened in September, 1914. On October 29, 1916, the Main Building of the College burned. It was then decided that the College should be moved to a new site to the west of Mount Franklin. The Thirty-fifth Legislature voted an emergency appropriation of \$100,000 for new buildings.

In 1927 the State Legislature provided for the enlargement of the program of the school to include the liberal arts. Following this provision, the Board of Regents in 1931 authorized the College to confer the degree of Bachelor of Arts. At the same time, the Board provided for a presidency for the College and vested direct administrative authority in that office. 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 120,000, 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 (3,800 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.

The second largest custom smelter in the world is situated near the College of Mines and Metallurgy. Within a short distance is also a most modern electrolytic copper refinery, which has a capacity of 20,000,000 pounds of copper in process. Nearby are located a large cement plant, two large brick plants, and three oil refineries. The manufacture of lime, tile, and other non-metallics is carried on 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.

BUILDINGS AND GROUNDS

The campus proper includes approximately sixty acres. Its thirteen buildings include the *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 Auxiliary of the College of Mines. The architectural style of all the buildings is Tibetan and the construction is from native stone. The campus is most picturesque and blends beautifully into the mountainous background.

LIBRARY

The main book collection of some 40,000 volumes is housed on the second floor and in the West annex of the Library-Administration building. The nucleus of the book collection was the library of the late W. H. Seamon, a mining engineer and member of the faculty.

The selection of books and periodicals has been made with the curriculum in mind. As the curriculum has expanded, so has the subject material in the library. Consequently, the geological, mining, language, economic, literary and historical collections are especially strong. However, recreational reading has not been neglected and many popular fiction and non-fiction titles are available.

The Library receives a select group of government documents and has valuable files of United States Geological Survey and Bureau of Mines bulletins and reports. Among other important documents are the Annals of Congress, The Register of Debates, The Congressional Globe, War of The Rebellion Series, and The American State Papers.

The reference collection is particularly good. The Library regularly receives some 330 periodicals—technical, general, literary and popular—and ten newspapers.

The facilities of the El Paso Public Library, The Teachers' Library of the El Paso Public Schools, and three or four private libraries are made available to students who wish to do specialized research.

MUSEUM

The El Paso Centennial Museum, allocated by the Commission of Control for the Texas Centennial Celebration, was created by the State of Texas 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 is devoting 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.

Permanent Collections: These exhibits include an excellent display of minerals and rocks with special emphasis being placed on Southwestern varieties. The archaeological collections have been assembled to show local cultures; therefore the El Paso Polychrome and Chihuahua pottery displays are outstanding. With the assistance of the Works Progress Administration, the Museum has assembled a large quantity of vertebrate paleontological material and this, in conjunction with the invertebrate paleontological specimens, presents a splendid display of prehistoric life. The biological collections, representing modern plants and animals, occupy space in Burges Hall.

Loan Collections: A number of the collections in the Museum have been loaned by individuals and groups in the community. Outstanding among these are the El Paso Pioneer's Association and the El Paso Volunteer Firemen's Association Collections, and the Collection of the United Daughters of the Confederacy.

Through the coöperation of the Museum and the Art Department a series of Art exhibits is 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 students' rooms are attractively furnished. Separate study tables with large size study lamps are available 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.

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.

SCHOLARSHIPS, FELLOWSHIPS, LOAN FUNDS, AND EMPLOYMENT

SCHOLARSHIPS

Accredited School Scholarship.—The College annually offers this scholarship to the valedictorian, boy or girl, graduating from an accredited secondary school located in the State of Texas, who meets specific requirements as to grades. The financial benefit is exemption from the tuition fee of \$25.00 per semester in the college for the two consecutive semesters of the first long session after graduation from high school (total \$50.00). The honor student must be certified through the Texas State Department of Education. Particulars may be obtained from high-school principals.

B'Nai Brith Scholarship.—The B'Nai Brith Lodge of El Paso in 1940 established an annual scholarship of \$50 to a student of junior or senior grade who is majoring in social sciences and who in the opinion of the President shows evidence of distinct ability in that field. The holder of the scholarship for 1946-1947 is Mary Maveety Melton.

El Paso Branch of the American Association of University Women Scholarship.—The El Paso Branch of the American Association of University Women offers a scholarship of \$50 cash to a senior girl. The awarding of this scholarship is based on need and on scholastic record, and the money may be used in any manner to further the recipient's education.

Sigma Delta Pi Scholarship.—Sigma Delta Pi offers one scholarship each year to an entering freshman from Juarez, Mexico, to be recommended by School Officials of Juarez, Mexico, in consultation with members of Sigma Delta Pi. The financial benefit amounts to \$25.00 per semester for one long session (total \$50.00).

Sternglanz Scholarship.—In 1944 Mr. and Mrs. Elias Sternglanz of El Paso, Texas, established a scholarship as a memorial to their son, Lt. Donald M. Sternglanz, who lost his life in a mission over St. Nazaire, France. This scholarship of \$75 is awarded annually to some promising student who is majoring in music. The holder of this scholarship for the year 1946-1947 is Harry Lee Plumbley of El Paso, Texas.

El Paso Herald Post Scholarship.—The El Paso Herald Post offers a scholarship to a worthy student majoring in journalism. The financial benefit covers tuition and required fees for both semesters of one long session.

El Paso Times Scholarship.—The El Paso Times offers a scholarship to a worthy student majoring in journalism. The financial benefit covers tuition and required fees for both semesters of one long session.

KROD Scholarships.—KROD radio station of El Paso, Texas, offers scholarships to students interested in the field of Radio Education. The financial benefit covers tuition and required fees for both semesters of one long session.

KTSM Scholarships.—In 1943 the KTSM radio station of El Paso, Texas, established scholarships at the Texas College of Mines to be awarded to students interested in the field of Radio Education. The financial benefit covers tuition and required fees for both semesters of one long session. Four scholarships were awarded by KTSM for the year 1944–1945, and for the year 1946–1947 five scholarships have been awarded. The holder of these scholarships for 1946–1947 are Murray Yaeger, Wm. McBee, Anona Stewart, Ann Shambley, and Jeanne Oppenheimer of El Paso, Texas.

The Popular Dry Goods Company Scholarship.—The Popular Dry Goods Company of El Paso, Texas, offers scholarships to worthy students interested in Advertising, Art, and Business Administration. One scholarship has been awarded for the year 1946–1947 to Catherine Burnett of El Paso, Texas

LOAN FUNDS

Unless otherwise specified, the following rules apply:

1. The amount of an individual loan will be limited to the sum of fees and deposits.
2. Endorsements required are those of the parent or guardian, and one other person suitable to the Committee.
3. Interest will be charged at the rate of six per cent per annum with a minimum charge of twenty-five cents. This interest is payable when the loan matures.
4. Repayment is required within the semester or term for which the loan is granted.
5. A student, generally, is expected not to apply for a loan until after one semester of attendance at the College of Mines.
6. Applications should be directed to Lloyd A. Nelson, Chairman of the Student Loan Committee.

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 Lloyd A. Nelson, Chairman of the Student Loan Fund Committee, and applications should be directed to him.

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.

Applications should be directed through Eugene M. Thomas, Dean of Engineering.

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.

EMPLOYMENT

Students' Employment Service.—To a student who wishes to contribute to his income while at the same time attending college, El Paso offers a large field of opportunity. The Employment Service at the College of Mines acts as a clearinghouse to coördinate the efforts of the student and the employer. The Service will make every endeavor to assist the student in securing employment, but other than this, the College assumes no responsibility. *In no case should the student enter the College for the first time without sufficient funds for at least the first semester.* Applications and correspondence should be directed to Chairman, Student Employment Service.

EXPENSES

Average registration cost for resident liberal arts students per semester runs from \$32.00 to \$39.00. This charge covers required fees only and does not include students in the Fine Arts.

Average registration cost for resident engineering students per semester runs from \$32.00 to \$48.00. This charge covers required fees only.

FEEES 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

TUITION—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 immediately prior to the date of registration, or a student of twenty-one years of age or over who resides out of Texas or who has resided

in Texas for a period of less than twelve months prior to the date of registration.*

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

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

Upon presentation of his receipt to 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.

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

The State Legislature has extended the same privilege to veterans, honorably discharged, of World War II. Exceptions: Those "who were discharged from the service . . . because of being over the age of thirty-eight years or because of a personal request . . . to be discharged from such service."

*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 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 Registrar and have such question settled 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.

Recipients of these benefits must be citizens of Texas and must present their service record or discharge to the Business Manager each time they register.

The above amended by: "Article 2654b-1 of Vernon's Annotated Civil Statutes provides for the exemption of certain veterans from the payment of dues, fees, and charges at State Institutions of collegiate rank supported in whole or in part by public funds appropriated from the State Treasury. Senate Bill No. 338, Acts of the 49th Legislature (1945), amended this Article by adding a new section, which reads as follows: 'Sec. 4. The exemption from the payment of dues, fees, and charges as provided hereinabove in Section 1 and Section 3 of this Article shall not apply to or include honorable discharged members of such United States Armed Forces, or other persons hereinabove named, who are eligible for education or training benefits provided by the United States Government under Public Law No. 346, 78th Congress, or amendments thereto, or under another Federal legislation that may be in force at the time of registration in the college concerned of such ex-service man or woman.'"

LABORATORY FEES PER SEMESTER

Art 301, 302, 303, 304, 305, 305K, 306, 307, -307K, 308, 309, 309K, 309N, 315, 316, 322, 323, 324, 325, 329.....	\$ 2.00
Bacteriology 29	2.00
Biology 310, 311, 330.....	2.00
Botany 301, 302.....	2.00
Business Administration 10, 21, 202, 203, 311, 314, 332, 334.....	2.00
Chemistry 1, 21, 306, 311, 323, 368.....	2.00
413, 415, 460, 461, 801, 821.....	4.00
Civil Aeronautics 411.....	4.00
Drawing 301, 302.....	2.00
Economics 329.....	2.00
Engineering 312, 322, 224.....	2.00
410, 414, 415, 431, 434, 533.....	4.00
Geography 303, 304.....	2.00
Geology 217, 301, 302, 316, 317, 361.....	2.00
418, 419, 421, 427, 463.....	4.00
Journalism 307, 308, 341.....	2.00
Metallurgy 264, 265, 324, 362, 364.....	2.00
423, 473	4.00
Mining 261, 262.....	2.00
Physics 1, 12, 34, 38, 222, 303, 304.....	2.00
801, 812	4.00
Psychology 362	2.00
Radio 314, 315, 320, 321, 330, 331.....	2.00
Zoology 14, 301, 302, 320, 321.....	2.00

COURSE FEES PER SEMESTER

Band 201, 211, 221, 231	2.00
Gold Diggers 204	2.00
Orchestral and Band Instruments	
325, 326	2.00
405	10.00*
Organ 8, 18, 28, 38, 405	10.00*
Piano 9, 19, 29, 39, 406, 416, 426	10.00*
Violin 7, 17, 27, 405, 415	10.00*
Voice 4, 14, 24, 209, 212	10.00*
Physical Education 201, 202, 203, 204	2.00†
322	2.00

MISCELLANEOUS REQUIRED FEES

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.

Special Examination Fee.—A fee of \$1.00 is required of persons who wish to take an advanced standing examination or to remove a *PX* or a condition by examination. Permission of the Dean and Registrar must be secured in advance.

Diploma Fee.—A diploma fee of \$5.00 is required of candidates for graduation. This fee must be paid 15 days before commencement.

OPTIONAL FEES

Co-Ed, per year	\$ 1.00
Hospitalization—per semester (required of dormitory students) ..	1.50
Student Association Memberships per year (Federal Tax not included) (subject to change)	10.00

Students' Association Fee.—The Students' Association fee is \$10.00 without Federal Tax. 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.

DEPOSITS

General property deposit	\$ 7.00
Dormitory room and key deposit	\$ 5.50

General property deposit.—Every student must make a general property deposit of \$7.00. This deposit is subject to charges for property loss or

*Additional fee for private instruction.

†If student elects horseback riding, \$10.00 additional per month.

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

Deposits will be refunded only when a student ends his career at the College of Mines and Metallurgy. No refund will be made to a student who plans to continue his education here, either at the close of the Long Session or Summer Term.

ROOM AND BOARD

Room rent per semester*.....	\$ 54.00
Board per semester*.....	162.00
Average cost of room and board per month*.....	48.00

HOUSING

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

There are 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. Adequate equipment is provided for supplying meals. Facilities also include recreation rooms which contribute to a pleasant social life for all resident students.

A room and key deposit of \$5.50 is required 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 time, and provided there is no deduction for breakage. The deposit will be returned to those students who cannot be accommodated in the college dormitories and to those applicants who cancel their reservations ten days prior to the opening of the session.

Room will be furnished in each of the dormitories at the rate of \$54.00 per semester. Board is provided at the rate of \$162.00 per semester. The

*Subject to change on thirty days' written notice.

College reserves the right to change the charges for room and board, or both, by giving written notice of such increases thirty days before the change.

The detailed regulations governing student life in the dormitories, the payment for room and board, refunds, changes of residence, etc. are published in pamphlet form. *Students concerned are held individually responsible for and charged with the knowledge of these regulations.* Copies can be obtained upon request from the Director of Dormitories.

Official Lists of Rooming and Boarding Houses.—The College of Mines maintains annually official lists of rooming houses for men and for women. Any rooming house is eligible to a place upon one of these official lists and to receive the publicity through the College accruing therefrom, provided it complies with the College regulations.

In order to be placed upon this official list, the proprietor must be of good moral character and must be willing to coöperate with the College in carrying out its regulations. All houses on the official list are subject to inspection by representatives of the College of Mines Health Service or by the Dean of Student Life. The College reserves the right to remove at anytime any house from the official list for cause deemed sufficient by the Committee on Student Living Accommodations.

The detailed regulations governing student life in boarding houses, standards to be met by proprietors, etc., are published in separate form. *Students and proprietors concerned are held individually responsible for and charged with the knowledge of these regulations.* Copies can be obtained upon request from the Registrar or the Chairman of the Committee on Student Living Accommodations.

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.

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

Physical examination.—A physical examination by the College Health Officer is required of all students who have not previously attended the College of Mines. An applicant must either be vaccinated by the College Health Officer or he 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 upon my honor not to encourage nor participate in hazing or rushes during my attendance in the College of Mines and Metallurgy, a branch of The University of Texas, provided that contests among students, conducted according to the rules approved by the faculty, shall not be classed as rushes."

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 either ancient or modern European history or World geography is offered; and credit may not be allowed for biology if credit for either botany or zoology has been granted. A student may enter with a condition in any one subject or group except English, provided he has a total of at least fifteen acceptable units. In no case will more than four units be accepted from Section B.

	UNITS
1. English (required of every student)	3
2. From the Mathematics Group in Section A below.....	2
3. Two units from each of any two of the Foreign Language Group, Natural Science Group, Social Science Group in Section A below....	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.)

SUBJECT	UNITS	SUBJECT	UNITS
English Group		Mathematics Group ⁴	
English	3-4	Algebra	1-1½-2
Fine Arts Group ¹		Plane Geometry	1
Art	1-3	Solid Geometry	½
Dramatics and Speech.....	½-2	Trigonometry	½
Music	1-4	General	1
Theory	1	Natural Science Group	
Harmony	1-2	Biology	1
History and Apprecia- tion	1	Botany	1
Applied Music ²	1	Chemistry	1
Band, Orchestra, Chorus ³	1-2.	General Science	1
Foreign Language Group		Physics	1
Czech	2-3	Physiography	½
French	2-3	Physiology and hygiene.....	½-1
German	2-3	Zoology	1
Greek	2-3	Social Science Group	
Latin	2-3-4	Ancient history	1
Spanish	2-3	Modern European history.....	1
		World history or World geog.	1
		English history	½-1
		American history	½-1
		Civics	½-1
		Economics	½

¹Not more than six units will be accepted in any combination of fine arts subjects.

²Applied music must be accompanied by music theory.

³Band, orchestra, and chorus must have been offered as curricular subjects and not as student activities. Less than one unit will not be accepted.

⁴From the combination of algebra and general mathematics, only two credits may be allowed; such as, Algebra 1 and General Mathematics or Algebra 1 and Algebra 2.

Section B

The electives (4) may be chosen from any subjects other than drill subjects (such as penmanship, physical education, military training, etc.) accredited by the State Department of Education, though not more than four units may be counted in vocational subjects. A single unit in foreign language may be counted in this group.

ENGINEERING

The unit requirements for admission to Engineering are as follows:

SUBJECT	UNITS
1. English	3
2. Mathematics	
Algebra	2
Plane Geometry	1
Solid Geometry	½
	} 3½
3. Two units from each of any two of the Foreign Language Group, Natural Science Group, Social Science Group in Section A	4
4. Additional from Section A, or from Section B, or from Sections A and B together.....	4½
Total	15

Under 4, 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 Engineering, except that neither the English nor the mathematics requirement may be absolved under "Quality Provisions."

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.

Students expecting to specialize in foreign languages in college should begin in high school. Those looking forward to college work in the sciences, mathematics, medicine, business administration, statistics, or law should take at least 1½ years of algebra and 1 year of plane geometry in high school. Students who plan to study engineering must have 2 years of algebra and 1 of plane geometry in high school. They are also strongly advised to take ½ year of solid geometry in high school.

STUDENTS FROM OTHER COLLEGES

A student seeking admission from another college must present 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, as students are not allowed to register until this transcript is on file.

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 scholastic probation or on any other condition that may seem desirable.

A student shall not receive credit for work done at another institution during a time when he is 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.

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 must submit his college record. This regulation applies whether the student attended another institution for only a brief period or if he finished one or more semesters; it also applies without regard to whether or not the student wishes credit here for college work done elsewhere.

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 of the high school they attended. 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.

In case of students from schools outside Texas, graduates of schools on the approved list, issued by the United States Department of the Interior, are accepted on the same basis as they would be accepted 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.

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 10, 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 himself and to the satisfaction of the College.

3. He must show, by the writing of a composition, that he has an adequate command of English.

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

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

Students so admitted may register for courses other than freshman courses only with the approval of the chairman of the department concerned and the Dean, given because of evidence of special fitness. This approval can rarely be granted, however, because most individual approval students have less preparation than any other students in the College.

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

HOW TO ABSOLVE ADMISSION CONDITIONS

General.—Admission conditions may be removed by the following methods:

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.

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.

Engineering students admitted without entrance credit to the College by individual approval and making during their first long session, or its equivalent, at least thirty-four semester hours with an average grade of *C* will in addition absolve the admission condition in seven elective units. Other students admitted without entrance credit to the College by individual approval will absolve six elective units upon completion of thirty semester hours during the first long session, or its equivalent. If this average is not made, the elective units (see "Scholarship Requirements") must be made up by one or more of the methods given in the general paragraph at the beginning of this section. The penalties and restrictions of that paragraph also apply to individual approval students.

Engineering

- 3 English (by completing English 1).
- 3 Mathematics (by completing Mathematics 803).
- 7 Elective units (by completing thirty-four semester hours with *C* average).
- ½ Solid Geometry (requirement for Engineering).
- 1½ units—loss of six college hours. For example: (Mathematics 305 and Chemistry 305).

15

Other students

- 3 English (by completing English 1).
- 3 Mathematics (by completing freshman mathematics).
- 6 Elective units (by completing thirty semester hours with *C* average).
- 3 units—loss of twelve college hours.

15

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 go for advice. The adviser earnestly endeavors to know his advisee and to effect an expeditious adjustment of the student to his new environment. The advisory work of members of the faculty is considered one of their most important functions.

HEALTH SERVICE

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 women's dormitory, attends to the health of resident students, supervises special diets, and gives talks on personal hygiene.

At the discretion of the student's Dean the physical education requirement may be waived in the case of students over 23 years of age.

Students whose physical examinations indicate that regular class work would be inappropriate for them may be given modified work.

Attendance in physical education is subject to the provisions under the heading Attendance and Absences, page 38, with the exception that a student who must be absent due to illness is required to report said case of illness to the Health Officer of the College immediately. Work missed in physical education 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.

INTRAMURAL ATHLETICS

A varied program of intramural sports for men and women offers competition and recreation for all students. The program is to be constantly expanded according to student interest and available facilities.

The program is sponsored by the Student Association and the Department of Physical and Health Education as represented by an Executive Committee made up of students and faculty. An Intramural Council for men and one for women, composed of student representatives from various participating

organization assists in planning and conducting the program. To participate in this program, a student must be a member of the Student Association.

INTERCOLLEGIATE 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.

OFFICIAL NON-ATHLETIC EXTRACURRICULAR ACTIVITIES

List of organizations.—It is the intention of the College of Mines to provide for its student population a group of non-athletic extracurricular organizations which will challenge the most diverse kinds of interest. Regardless of the field to which the student's specific interests run, he is likely to find one or more of the following organizations designed to stimulate those interests, and in which his participation is invited:

General Organizations

1. Academic Association
2. Academic-Engineering Force
3. Co-Ed Association
4. Independent Men's Association
5. Independent Women's Association
6. International Relations Club
7. Latin-American Club
8. Phrateres
9. Scientific Club
10. Students' Association
11. Archery Club
12. Rifle Club
13. Riding Club
14. Veterans' Club

Departmental Organizations

15. Camera Club
16. Band
17. College Players
18. Forensic Society
19. Gold Diggers
20. Pre-Law Club
21. Pre-Med Club
22. Press Club
23. Beaux-Arts Club
24. *The Flowsheet*

- 25. *The Prospector*
- 26. *El Burro*
- 27. Varsitonians
- 28. A-capella Choir

Religious Organizations

- 29. Baptist Student Union
- 30. Newman Club
- 31. Students' Christian Association

Honorary Organizations

- 32. Alpha Chi
- 33. Alpha Psi Omega
- 34. Kappa Delta Pi
- 35. Sigma Delta Pi
- 36. Sigma Gamma Epsilon

Greek Letter Social Organizations

- 37. Alpha Phi Omega
- 38. Chi Omega
- 39. Delta Delta Delta
- 40. Delta Gamma
- 41. Phi Kappa Tau
- 42. Lambda Chi Alpha
- 43. Zeta Tau Alpha
- 44. Kappa Sigma Kappa

General Regulations.—Each organization listed above is supervised by a faculty sponsor, who acts in capacity of counselor. The sponsor receives his appointment in accordance with the provisions of the constitution of his organization, which constitution also provides means whereby students may gain membership, provides means for the election of organization officers, and furnishes the framework for a continuing body. Rules and regulations governing the conduct of the affairs of all organizations listed above arise with the Faculty Committee on Student Activities.

Any question regarding the existence or the interpretation of regulations should be referred to the office of the Dean of Student Life. The rules printed herein and those which, because of the necessary flexibility, are annually printed in a Students' Handbook, published by the Students' Association, are so easily available (either in published form or through reference to the office of the Dean of Student Life) that each student is charged with knowledge and notice thereof.

Rules for Participation.—For enforcement of the following rules the faculty sponsors and the officers of the organizations are held responsible.

I. For Greek Letter Social Organizations: (to preserve the flexibility which the Faculty Committee on Student Activities feels it necessary in the case of these organizations, rules here are published annually in a Students' Handbook, and otherwise are available at the office of the Dean of Student Life).

II. For Honorary Organizations: (regulations governing the gaining of membership and the continuing of participation are available at the office of the Dean of Student Life).

III. For General Organizations, Departmental Organizations, and Religious Organizations:

1. To become a member, a student must
 - a. Gain admittance in accordance with the constitution of the organization applied to,
 - b. At the time, be subject to no phase of disciplinary action (this rule does not apply to organizations numbered 10, 29, 30, and 31 above),
 - c. At the time be taking at least twelve semester hours in residence for credit (this rule does not apply to organizations numbered 10, 29, 30, and 31 above),
 - d. Be able to show that during his last semester in attendance he passed a *minimum of nine semester hours for credit, two consecutive summer terms to count as one semester* (this rule does not apply to organizations numbered 10, 29, 30, and 31 above),
 - e. Not be on Scholastic Probation (this rule does not apply to organizations numbered 10, 29, 30, and 31 above), and
 - f. Have paid his Student Association fee.
2. To retain membership:
 - a. Eligibility at the beginning of a semester holds good throughout the semester unless the student becomes ineligible under the above provisions. A student ineligible at the beginning of a semester by reason of the foregoing rules, becomes eligible upon removal of his disability. First year students are eligible immediately upon entering, provided they otherwise can qualify.

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

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

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

DISCIPLINE

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

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

3. A jury indictment for a felony or other offense of serious character suspends the student, without prejudice, until acquitted.

4. Illegal conduct, such as the drinking of intoxicating liquors, gambling, and dishonesty, renders the student subject to discipline.

5. The College, in common with other institutions, has for its orderly and efficient conduct, special regulations additional to the laws of the land. These special regulations are so easily available to all students that each student is charged with notice and knowledge thereof.

6. Persons not registered in the College when accused of misconduct that affects college life and work, if former or prospective students, will have the known circumstances inscribed in their record as a presumption against their moral character. They will not be later admitted to the College unless they can prove moral desirability.

7. All students are expected to show respect for properly constituted authority and to observe correct standards of conduct. Conduct inconsistent with general good order, or persistent neglect of work, or failure to respond promptly to official notices, may subject the student to discipline.

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

The following penalties may be imposed: admonition; probation; suspension of social rights and privileges; suspension of eligibility for official athletic and non-athletic 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.

SCHOLASTIC REGULATIONS

ADDING, DROPPING, AND CHANGING COURSES

After registration for the session a student may add a course only with the approval of his Dean.

A change from one course to another course may be made only with the approval of the student's Dean. A change from one section of a course to another section of the same course must be approved by both the head of the department in which the change is being made and by the student's Dean.

For a weighty cause, a student may drop a course with the consent of his Dean. If the student is passing the course at the time that he drops it, the grade in the course will be entered as *Dr*. However, if the student is failing the course at the time he drops it, his grade will be entered as *Dr F*.

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, excessive absences, or lack of effort. In such case the grade is entered on the student's record as *F*.

ATTENDANCE AND ABSENCES

a. 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.

b. A student has no right to be absent from any exercise in a course in which he is registered, except (1) for serious illness, or (2) by action of College rule, or (3) for other unavoidable circumstances. Absences caused by serious sickness or other unavoidable circumstances, in case the work missed has been done to the satisfaction of the instructor, shall not count toward dropping a student from a course.

c. When, in the judgment of the instructor, a student has been absent to such a degree as to impair his status relative to credit for the course, the instructor shall report the absences and the student to the Dean, and upon recommendation from the instructor, the Dean may drop the student from the course.

d. Absences incurred by a student prior to registration are not to be charged against said student provided the work missed because of late registration is made up satisfactorily by the mid-summer report date.

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.

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.

Arts and science students.—The normal load for beginning freshmen is sixteen semester hours. The maximum load for beginning freshmen is seventeen semester hours.

Other students, with permission of the Dean, may register for eighteen semester hours if the grade score has been 252 points for the preceding semester and for more than eighteen semester hours if the grade score has been 297 for the preceding semester. A full summer session may be counted as a semester.

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

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 full official force and effect. Students are held responsible for knowledge of and compliance with such notices.

CLASSIFICATION OF STUDENTS

Students are classified as credit, non-credit, and unclassified. *Credit students* are further classified as *regular students* who are taking 12 or more semester hours of work prescribed for a degree, and *irregular students* who are taking less than 12 semester hours. *Non-credit students* are those who are registered for courses with the understanding that credit for the course will not be received. *Unclassified students* are defined as students who register for work in the Texas College of Mines without submitting to the Registrar a transcript of previous college work. This classification is used primarily for teachers and mature students.

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

Engineering students.—Until the completion of thirty semester hours of prescribed work in addition to the full admission requirements, engineering

students are freshmen; then, until sixty-six semester hours are completed, sophomores; then, until one hundred and four semester hours are completed, juniors; then, seniors until graduation.

Arts and science 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.

EXAMINATIONS

All of the written work handed in by students is considered to be their own product, prepared without unauthorized assistance. Students are invited to cooperate with their instructors in maintaining the integrity of examinations and are strongly urged to inform them, without specifying the offenders, if cheating goes on in their classes.

Students are expected (a) to remain in the examination room during the examination or quiz period; (b) to refrain from talking or smoking; and (c) to leave all notes and books where they will not be accessible during the examination or quiz, unless otherwise directed by the instructor.

Final 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.

Examinations are three hours in length and at the end of three hours all papers are taken up.

A student absent from a final examination without an excuse from the Dean is graded *F* and required to repeat the semester's work if credit is desired for the course. However, if compelled to be absent from the final examination on account of illness or other imperative cause, the student is entitled to take a postponed examination. (See Postponed Examinations.)

Postponed examinations.—In case a student is compelled to be absent from a final examination because of illness or other imperative cause, permission should be obtained from the Dean, beforehand, if possible, to postpone the examination until another date approved by the Dean. During the period of postponement the student is given a grade of *PX*.

An examination officially postponed may be taken within a year of the date from which the examination was postponed. Regular dates are fixed by the Calendar for such examinations. A student may take one at another time only at a regular examination in a course and then only with the permission of the Dean. At any event, he must file an application for

examination with the Registrar on or before the fourth day preceding the first day of the examination period. A student who takes and fails to pass a postponed examination will be given a grade of *F* in the course.

Absence from a postponed examination, after a permit has been granted, will have the same effect as failure unless the student presents to his Dean within a week after the date set for the examination a satisfactory excuse for his absence.

Removal-of-condition examinations.—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 the course and only with the permission of his Dean. Application for this examination must be filed with the Registrar at least four days before the examination is to be given.

Removal-of-condition examinations may not be taken more than twelve months after the condition was received. A student who passes a removal-of-condition examination will be given a grade of *D* in the course. A student who fails the examination will be given a grade of *F* in the course and must take that semester's work over to secure credit for the course.

Absence from a condition examination, after a permit has been granted, will have the same effect as failure unless the student presents to his Dean within a week after the date set for the examination a satisfactory excuse for his absence.

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 four days before the examination periods as fixed by the Calendar. Credit has rarely been given for courses by examination. In fact, advanced standing examinations 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.

Absence from an advanced standing examination after a permit has been granted, will have the same effect as failure unless the student presents to his Dean within a week after the date set for the examination a satisfactory excuse for his absence.

EXPLANATION OF COURSES

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

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

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

Rank and credit value.—A number between 200 and 299 indicates a value of two semester hours, one between 300 and 399 a value of three semester hours, etc., except that when the value is six semester hours the numbers between 0 and 99 are used, instead of the numbers between 600 and 699. The two digits on the right indicate the rank of the course; if between 0 and 9 the course is of freshman rank; if between 10 and 19, of sophomore rank; if between 20 and 99, of upper division (advanced) 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 upper division or 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, English 1 (freshman English) is a course running through the entire long session and carrying six semester hours of credit. English 1as is the first half of English 1 given in the second semester and carrying three semester hours of credit which, however, cannot be taken until English 1b, the second half of English 1, has been completed.

In any course requiring two semesters for completion, the first semester is prerequisite for the second semester of the course.

GRADES OF SCHOLARSHIP

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.

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

In the case of students who drop courses or who withdraw from school, the following grades apply:

1. A student who is passing a course at the time he drops it receives a grade of *Dr* in the course. A student who is failing a course at the time he drops it, receives a grade of *DrF* in the course.

2. A student who is passing a course at the time he withdraws from school receives a grade of *Wd* in the course. A student who is failing a course at the time of his withdrawal receives a grade of *WdF* in the course.

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 (for example, English 11), 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.

Incomplete 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 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 or at the end of either term of a Summer Session, 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.

If *PX* or *Inc.* grades are removed within the first two weeks of the semester immediately following the one in which they were received, the scholastic standing of the student will be adjusted according to the final grades. *Px* examinations will be given within two weeks after the close of each semester.

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.

HONORS

At the end of each semester the Registrar will publish an honor list consisting of the upper ten per cent of the Arts and Science Division and the upper ten per cent of the Engineering Division. To be eligible for the honor list a student must be registered for not less than fourteen semester hours and must pass all work taken.

LATE REGISTRATION

Students will be permitted to register late under the following conditions:

1. Each day missed will be counted as an absence unless work is made up before mid-semester.
2. The student's class schedule will be made up only from the sections which are open at the time of his registration.
3. Work missed because of late registration will be counted as zero unless the student definitely makes it up.
4. The student will be required to enroll for a reduced program of classes depending upon the lateness of registration.

REPORTS

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.

Intra-semester reports.—On November 14 and March 27 reports are due in the Registrar's Office for the following students:

1. All students on the freshman advisory lists.
2. All students on scholastic probation list.
3. All other students making less than a grade of C in a course.
4. All students who are enrolled under the educational provisions of the G. I. Bill of Rights, Public Law 346, 78th Congress or Public Law 16 (in addition to grades, the instructor must report absences on these students).

Students may receive these grades from the Registrar if all grades for that mid-semester are D or better. If there are any failures among the student's grades for that mid-semester the entire set of grades will be mailed to his parents or guardians.

STANDARD OF WORK REQUIRED

Definitions.—The grade D will be considered passing but not satisfactorily passing with reference to Scholastic Probation. The grades Px., Inc., E, and F will not be considered passing. (If Px., Inc., or E are removed within two weeks after the end of the semester, the student's status will be adjusted.)

Required Minimum.—To remain in good standing, a student must meet the following standard of work at mid-semester and semester report periods:

1. A student taking less than six semester hours must pass satisfactorily in all the work taken.
2. A student taking six or more semester hours must pass satisfactorily in at least six semester hours.

Scholastic Probation.—A student who fails to attain the required minimum at any grade period (mid-semester or end of semester) will be placed on Scholastic Probation with the exception of beginning freshmen, who will not be placed on Scholastic Probation before the end of their first semester of attendance.

The student will be warned by his Dean and his parents will be notified by the Registrar.

A student who withdraws during a semester while on Scholastic Probation will be continued on that status for the succeeding long-session semester unless he attends an intervening summer session and satisfactorily passes at least nine semester hours.

Return to Good Standing.—A student on Scholastic Probation can return to good standing in the following ways:

1. By attaining the minimum requirement at any grade period in the long session.
2. By attending a summer session and satisfactorily passing at least nine semester hours.
3. After withdrawal while on Scholastic Probation, by registering after a lapse of one long-session semester.

Failure.—A student who is placed on Scholastic Probation and fails to attain the required minimum at the next succeeding grade period of the long session will be dropped from the rolls of the College unless:

1. He makes a grade of *C* or better in nine semester hours in the intervening summer session.
2. He be permitted to continue by the President.

A student who fails in all his courses at the end of any long-session semester may be dropped from the rolls of the College immediately.

Return After Failure.—A student who fails to attain the required minimum may register sooner than the second successive long-session semester if he attends an intervening summer session and passes nine semester hours.

A student who has absolved the failure requirements either by being dropped from the College for a long-session semester or by passing nine semester hours in an intervening summer session, will be permitted to reënter in good standing.

WITHDRAWAL FROM SCHOOL

Official.—A student who wishes to withdraw from school may do so with the consent of his Dean. In any course in which the student is passing at the time of withdrawal, he will receive a grade of *Wd*. In any course which the student is failing at the time of withdrawal, he will receive a grade of *WdF*.

Unofficial.—Withdrawal from school without consent of the student's Dean constitutes an unofficial withdrawal. In such cases the student will receive a grade of *F* in each of the courses for which he was registered during that semester.

Effect of withdrawal on scholastic standing.—

Effect on student in good standing: loss of time.

Effect on student on scholastic probation: student is continued on scholastic probation.

Effect of an unofficial withdrawal: a student who unofficially withdraws will receive the grade of *WdF* and must satisfy the requirement of *Return After Failure* (see above).

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.

Second Degree

No second bachelor's degree will be conferred until the candidate has completed at least twenty-four semester hours in addition to those counted toward the bachelor's degree requiring the higher number of semester hours of credit; and that two bachelor's degrees may not be awarded to any candidate at the same commencement.

ENGINEER OF MINES

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

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

All candidates must take at least twenty-four hours in advanced courses, in class at the College, out of the last thirty semester hours offered.

In order to become a candidate for a degree a student must have satisfied all admission requirements, and have completed one-hundred-four semester hours of work prescribed in the chosen option with an average grade of C or better. He will then petition the Faculty through the Registrar to become a candidate for a degree.

UNIFORM CURRICULUM FOR THE FIRST AND SECOND YEARS
First Year

Course and Number	Title of Course	Hrs. per Wk.		Sem. Hrs. Credit
		Class	Lab.	
First Semester				
Chemistry 801a	General Chemistry	3	3	4
Drawing 301	Engineering Drawing	1	8	3
English 1a	Rhetoric and Composition	3	0	3
Geology 301	Principles of General Geology	3	3	3
Mathematics 803a	Elementary Mathematical Analysis	4	0	4
Physical Education	Service Course	3	0	1
Engineering 01	The Engineering Profession	½	0	0
				18
Second Semester				
Chemistry 801b	General Chemistry	3	3	4
Drawing 302	Descriptive Geometry	1	8	3
English 1b	Rhetoric and Composition	3	0	3
Geology 302	Principles of General Geology	3	3	3
Mathematics 803b	Elementary Mathematical Analysis	4	0	4
Physical Education	Service Course	3	0	1
				18
Second Year				
First Semester				
Chemistry 311	Qualitative Analysis	1	6	3
English 310	Technical Writing	3	0	3
Geology 316	Mineralogy	1	6	3
Government 10a	American Government	3	0	3
Mathematics 13a	Calculus	3	0	3
Physics 812a	Mechanics, Heat	3	3	4
Physical Education	Service Course	3	0	1
				20
Second Semester				
Chemistry 413	Quantitative Analysis	1	8	4
Engineering 313	Plane Surveying	3	0	3
Geology 217	Mineralogy	0	6	2
Government 10b	American Government	3	0	3
Mathematics 13b	Calculus	3	0	3
Physics 812b	Electricity and Magnetism	3	3	4
Physical Education	Service Course	3	0	1
				20
Summer School				
Engineering 414	Field Surveying	192		4

MINING OPTION
Third Year

Course and Number	Title of Course	Hrs. per Wk.		Sem. Hrs. Credit
		Class	Lab.	
First Semester				
Chemistry 323	Quantitative Analysis	1	6	3
Geology 421	Advanced General Geology	3	3	4
Mathematics 325	Calculus	3	0	3
Metallurgy 423	Ore Dressing and Milling	3	3	4
Mining 521	Mining Methods	5	0	5
				19
Second Semester				
Engineering 322	Mine and Route Surveying	2	3	3
Engineering 533	Applied Mechanics and Graphic Statics	3	6	5
Geology 322	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
Summer School				
Engineering 224	Mine Surveying:—Field Work; 8 hours a day for two weeks		96	2
Fourth Year				
First Semester				
Economics 312	Principles of Economics	3	0	3
Engineering 434	Strength of Materials	3	3	4
Engineering 354	Hydraulics	3	0	3
Geology 264	Field Geology	1	3	2
Metallurgy 261	Metallurgy of Iron, Copper and Lead	2	0	2
Mining 260	Mine Plant	2	0	2
Mining 267	Management	2	0	2
				18
Second Semester				
Engineering 431	Electrical Circuits and Machines	3	3	4
Engineering 335	Masonry and Reinforced Concrete	3	0	3
Engineering 350	Steam Power Plants	3	0	3
Mining 231	Mine Hygiene	2	0	2
Mining 261	Mine Plant	1	3	2
Mining 262	Mine Plant Design	0	6	2
Mining 269	Management	2	0	2
Mining 074	Senior Trip			0
				18

MINING GEOLOGY OPTION

Third Year

Course and Number	Title of Course	Hrs. per Wk.		Sem. Hrs. Credit
		Class	Lab.	
First Semester				
Chemistry 323	Quantitative Analysis	1	6	3
Geology 421	Advanced General Geology	3	3	4
Mathematics 325	Calculus	3	0	3
Metallurgy 423	Ore Dressing and Milling	3	3	4
Mining 521	Mining Methods	5	0	5
				19
Second Semester				
Engineering 322	Mine and Route Surveying	2	3	3
Engineering 533	Applied Mechanics and Graphic Statics	3	6	5
Geology 322	General Economic Geology	3	0	3
Geology 427	Petrology and Petrography	2	6	4
or				
Geology 463	Geology of Petroleum, the Fuels and the Non-Metallics	3	3	4
Elective		2	0	2
Physics 222	Sound and Light	1	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 312	Principles of Economics	3	0	3
Engineering 434	Strength of Materials	3	3	4
Engineering 354	Hydraulics	3	0	3
Geology 418	Invertebrate Paleontology	2	6	4
Geology 264	Field Geology	1	3	2
Mining 267	Management	2	0	2
				18
Second Semester				
Engineering 335	Masonry and Reinforced Concrete	3	0	3
Engineering 350	Steam Power Plants	3	0	3
Geology 427	Petrology and Petrography	2	6	4
or				
Geology 463	Geology and Petroleum, the Fuels and the Non-Metallics	3	3	4
Geology 361	Advanced Economic Geology	2	3	3
Metallurgy 324	Assaying	1	6	3
Mining 269	Management	2	0	2
Geology 074	Senior Trip			0
				18

METALLURGY OPTION

Third Year

Course and Number	Title of Course	Hrs. per Wk.		Sem. Hrs. Credit
		Class	Lab.	
First Semester				
Chemistry 323	Quantitative Analysis	1	6	3
Chemistry 460	Physical Chemistry	3	3	4
Mathematics 325	Calculus	3	0	3
Metallurgy 423	Ore Dressing and Milling	3	3	4
Mining 521	Mining Methods	5	0	5
				19
Second Semester				
Chemistry 261	Physical Chemistry	2	0	2
Engineering 533	Applied Mechanics and Graphic Statics	2	6	5
Geology 322	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
				18

Fourth Year

First Semester				
Economics 312	Principles of Economics	3	0	3
Engineering 434	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
				19
Second Semester				
Engineering 350	Steam Power Plants	3	0	3
Engineering 431	Electrical Circuits and Machines	3	3	4
Engineering 335	Masonry and Reinforced Concrete	3	0	3
Metallurgy 364	Metallurgical Laboratory	0	9	3
Metallurgy 473	Metallography	3	3	4
Mining 269	Management	2	0	2
Metallurgy 074	Senior Trip			0
				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 thirty semester hours of work counting toward the degree must be completed in residence.

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

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

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

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

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 ninety semester hours of work as set forth in the outline for the chosen major, the student will 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.

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*, *Px* 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,² Geology, Mathematics,² Physics.²

*Minor:*¹ Biological Sciences, Chemistry,² Geology, Mathematics,² Physics.²

Group B

Major: Art, Business Administration, Economics, Education, English, French, History, Journalism, Music, Physical Education, Radio, Spanish.

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

Basic 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."
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 1, and 12 or 12Q).
4. Completion of Course 12 or 13 in one foreign language, either modern or ancient.³
5. Twelve semester hours in natural (laboratory sciences).⁴
6. Six semester hours in mathematics.⁵

¹A different minor may be chosen only with the permission of the head of the major department and the approval of the Dean.

²Mathematics 803 is 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.

³In the Physical Education Major Education 301, 316, and 317; or Education 301, 314, and 318; and three additional semester hours are required instead of language.

⁴Botany, biology, chemistry, geography, geology, physics, zoology.

⁵In the Music Majors six semester hours of a second language may be substituted for Mathematics.

7. Six semester hours in American and Texas Government (Government 10), History 301 and 302, Economics 312, Philosophy 330⁶ and 331.⁷

8. Not less than a total of thirty semester hours of advanced courses⁸ and not more than a total of sixty-six semester hours in the major and minor subjects.

9. Four semester hours of Physical Education as prescribed in the Freshman and Sophomore years.

10. Enough other courses to make at least one hundred and twenty-four semester hours.

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 "Curriculum Outlines."

Freshman Year.—English 1; foreign language 1; science, six semester hours; History 301 and 302, six semester hours; elective or major subject, six semester hours; physical education.

Sophomore Year.—English 12; foreign language 12; science, or mathematics, six semester hours; major subject, six semester hours; minor subject, six semester hours; physical education.

Junior Year.—The student's course program must be approved by the head of his major department and should include: Government 10; Economics 312, three semester hours; major subject (advanced), six semester hours; minor subject, six semester hours; science or mathematics, six semester hours; elective (advanced), three semester hours.

Senior Year.—The student's course program must be approved by the dean and should include: Philosophy 330 and 331, six semester hours; major subject (advanced), six semester hours; minor subject (advanced), six semester hours; elective (advanced), three semester hours; elective, nine semester hours.

Curriculum 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.

⁶In the Education Majors Sociology 310 is required instead of Philosophy 330.

⁷In the Spanish Major History 347 or 348 is required in addition; in the French Major, History 351.

⁸Students 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 and 314 and Psychology 316.

CURRICULUM IN

ART MAJOR

Minor—See Group B under "Concentrations"

Requirements

	HOURS
1. Art—twenty-four semester hours, including Design 301 and 302,—twelve of which must be advanced.....	24
2. Minor—eighteen semester hours, six of which must be advanced	18
3. English 1 and 12 or 12Q	12
4. Foreign language—the completion of a course numbered 12 or 13	12
5. Science (laboratory)—twelve semester hours.....	12
6. Mathematics	6
7. Social Studies—twenty-one semester hours, including Government 10, History 301 and 302, Economics 312, Philosophy 330 and 331	21
8. Electives, six semester hours of which must be advanced.....	15
9. Physical Education—two years of service courses.....	4
	124

CURRICULUM IN
BUSINESS ADMINISTRATION MAJOR

Minor—See Group B under "Concentrations"

Requirements

	HOURS
1. Business Administration 311, 314, 332, 20, and nine additional semester hours of business administration, at least three of which must be advanced.....	24
2. Minor subject, eighteen semester hours, six of which must be advanced.....	18
3. English 1 and 12 or 12Q.....	12
4. Foreign language—the completion of a course numbered 12 or 13.....	12
5. Science (laboratory)—twelve semester hours.....	12
6. Mathematics 304 and 307 or 309, or 803.....	6
7. Social Studies—twenty-one semester hours, including Government 10, History 301 and 302, Economics 312, Philosophy 330 and 331.....	21
8. *Electives, six semester hours of which must be advanced.....	15
9. Physical Education—two years of service courses.....	4
	124

*Students electing this major are strongly advised to include Economics 313 and Psychology 316.

**CURRICULUM IN
ECONOMICS MAJOR**

Minor—See Group B under "Concentrations"

Requirements

	HOURS
1. Economics 312, 313, 329 and fifteen additional semester hours in economics, at least nine of which must be advanced	24
2. Minor subject, eighteen semester hours, six of which must be advanced	18
3. English 1 and 12 or 12Q	12
4. Foreign language—the completion of a course numbered 12 or 13	12
5. Science (laboratory)—twelve semester hours	12
6. Mathematics	6
7. Social Studies—eighteen semester hours, including Government 10, History 301 and 302, Philosophy 330 and 331.....	18
8. *Electives, six semester hours of which must be advanced.....	18
9. Physical Education—two years of service courses.....	4
	124

*Students electing this major are strongly advised to include Business Administration 311 and 314 and Psychology 316.

**CURRICULUM IN
EDUCATION MAJOR**

Minor—See Group B under "Concentrations"

PLAN I

(NOTE.—These are the minimum requirements for the B.A. degree, but do not necessarily lead to a permanent teacher's certificate.)

Requirements

	HOURS
1. Education—twenty-four semester hours, twelve of which must be of advanced courses.....	24
2. Minor—eighteen semester hours of numbered courses, six of which must be advanced.....	18
3. English 1 and 12 or 12Q.....	12
4. Foreign language—the completion of a course numbered 12 or 13.....	12
5. Science (laboratory)—twelve semester hours.....	12
6. Mathematics.....	6
7. Social Studies—twenty-one semester hours, including Government 10, History 301 and 302, Economics 312, Philosophy 331, and Sociology 310†.....	21
8. *Electives and additional courses—including Public Speaking 301 and six semester hours of advanced courses.....	15
9. Physical Education—two years of service courses.....	4
	124

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

†Instead of Philosophy 330.

**CURRICULUM IN
EDUCATION MAJOR**

Academic Major—See Group B under "Concentrations"

PLAN II

FOR HIGH-SCHOOL TEACHERS

(NOTE.—Those who desire a permanent high-school certificate must satisfy the following requirements for the Bachelor of Arts degree.)

Requirements	HOURS
1. Education 301, 305, 316, 317, 327, 327T, and six additional advanced semester hours, including three semester hours of methods in the academic major.....	24
2. Academic major—twenty-four semester hours, twelve of which must be advanced.....	24
3. English 1 and 12 or 12Q.....	12
4. Foreign language—the completion of a course numbered 12 or 13.....	12
5. Science (laboratory)—twelve semester hours.....	12
6. Mathematics.....	6
7. Social Studies—twenty-one semester hours, including Government 10, History 301 and 302, Economics 312, Philosophy 331, and Sociology 310*.....	21
8. Electives and additional courses—including Public Speaking 301 and Physical Education 341.....	9
9. Physical Education—two years of service courses.....	4
	124

*Instead of Philosophy 330.

CURRICULUM IN
EDUCATION MAJOR
PLAN III

FOR ELEMENTARY SCHOOL TEACHERS

(NOTE.—Those who desire a six-year elementary school certificate must satisfy the following requirements for the Bachelor of Arts degree.)

Requirements

	HOURS
1. Education 301, 305, 314, 318, 331T, 328, 328T, and three additional advanced hours.....	24
2. Design 301, Public School Art 321, Elementary Music Education 310, Education 320, and Physical Education 319 and 341	18
3. English 1 and 12 or 12Q.....	12
4. Foreign language—the completion of a course numbered 12 or 13	12
5. Science (laboratory)—twelve semester hours (including Geography 303)	12
6. Mathematics	6
7. Social Studies—twenty-one semester hours, including Government 10, History 301 and 302, Economics 312, Philosophy 331, and Sociology 310*.....	21
8. Electives and additional courses—including Public Speaking 301 and six advanced hours.....	15
9. Physical Education—two years of service courses.....	4
	124

*Instead of Philosophy 330.

**CURRICULUM IN
ENGLISH MAJOR**

Minor—See Group B under "Concentrations"

Requirements

	HOURS
1. English, 1, 12, or 12Q, 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 or 12Q (See No. 1)	0
4. Foreign language—the completion of a course numbered 12 or 13	12
5. Science (laboratory)—twelve semester hours	12
6. Mathematics	6
7. Social Studies—twenty-one semester hours including Government 10, History 301 and 302, Economics 312, Philosophy 330 and 331	21
8. Electives, six semester hours of which must be advanced	27
9. Physical Education—two years of service courses	4
	124

**CURRICULUM IN
HISTORY MAJOR**

Minor—See Group B under "Concentrations"

Requirements

	HOURS
1. History 301, 302, and eighteen additional hours, twelve of which must be advanced	24
2. Minor—eighteen semester hours, six of which must be advanced	18
3. English 1 and 12 or 12Q.....	12
4. Foreign language—the completion of a course numbered 12 or 13	12
5. Science (laboratory)—twelve semester hours.....	12
6. Mathematics	6
7. Social Studies—fifteen semester hours, including Government 10, Economics 312, Philosophy 330 and 331.....	15
8. *Electives, six semester hours of which must be advanced	21
9. Physical Education—two years of service courses.....	4
	124

*Students interested in teaching history are urged to take the following courses in Education, which will meet the requirements for a four-year high-school teachers' certificate: Education 301, 316, 317, and three additional semester hours in Education, Education 327 and 327T (student teaching) are strongly recommended.

**CURRICULUM IN
MAJOR IN INTER-AMERICAN STUDIES**

Minor—Combination

Requirements

	HOURS
1. and 2. (a) Economics 312, 313, 348, and three additional advanced hours in Economics*	
(b) History 301, 302, 347, 348, and six semester hours of lower division History†	
(c) Spanish 1 (or 801), 12, 324 (or 360), 357‡	
(d) Nine additional advanced hours chosen from the fields of Economics, Government, History, and Languages	
	57
3. English 1, and 12 or 12Q.....	12
4. Foreign language (see Nos. 1 and 2)	
5. §Science (laboratory)	12
6. Mathematics	6
7. Social Studies—Government 10, Philosophy 330, Psychology 310	12
8. ||Electives, six semester hours of which must be advanced....	21
9. Physical Education—two years of service courses.....	4
	124

*Economics 350 is recommended.

†History 312 and 313 are recommended.

‡A major examination in Spanish is required.

§Geography 303 is recommended.

||Students interested in exchange teaching should take Education 301, 305, and six additional semester hours of Education.

Note: The student should advise with the Dean of Arts and Sciences with reference to the planning of his work in this major.

**CURRICULUM IN
JOURNALISM MAJOR**

Minor—See Group B under "Concentrations"

Requirements

	HOURS
1. Journalism 311, 312 and eighteen additional semester hours, twelve of which must be advanced.....	24
2. Minor—eighteen semester hours, six of which must be advanced	18
3. English 1 and 12 or 12Q	12
4. Foreign language—the completion of a course numbered 12 or 13	12
5. Science (laboratory)—twelve semester hours.....	12
6. Mathematics	6
7. Social Studies—twenty-one semester hours, including Government 10, History 301 and 302, Economics 312, Philosophy 330 and 331	21
8. *Electives, six semester hours of which must be advanced.....	15
9. Physical Education—two years of service courses.....	4
	124

*Students interested in teaching Journalism are urged to take the following courses in Education which will meet the requirements for a four year high-school certificate: Education 301, 316, 317, and three additional semester hours in Education.

**CURRICULUM IN
MATHEMATICS MAJOR**

Minor—See Group A under "Concentrations"

Requirements

	HOURS
1. Mathematics—twenty-four semester hours, twelve of which must be advanced _____	24
2. Minor—eighteen semester hours, six of which must be advanced _____	18
3. English 1 and 12 or 12Q _____	12
4. Foreign language—the completion of a course numbered 12 or 13 _____	12
5. Science (laboratory)—twelve semester hours _____	12
6. Mathematics (See No. 1) _____	0
7. Social Studies—twenty-one semester hours, including Govern- ment 10, History 301 and 302, Economics 312, Philosophy 330 and 331 _____	21
8. *Electives, six semester hours of which must be advanced _____	21
9. Physical Education—two years of service courses _____	4
	124

*Students who plan to teach high-school mathematics should take Education 301, 316, and 317, and at least three additional semester hours in education. Education 327 and 327T are strongly recommended. Credits earned in these courses may be counted toward a minor in education or as elective hours.

**CURRICULUM IN
MODERN LANGUAGE MAJOR**
Minor—See Group A under "Concentrations"

Requirements

	HOURS
1. Major language—courses 1 or 801 and 12, plus 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 or 12Q	12
4. Second foreign language—the completion of a course numbered 12 or 13	12
5. Science (laboratory)—twelve semester hours.....	12
6. Mathematics	6
7. Social Studies—twenty-four semester hours, including Government 10, History 301 and 302, Economics 312, Philosophy 330 and 331 and, for Spanish majors, History 347 or 348; for French majors, History 351.....	24
8. *Electives, three semester hours of which must be advanced...	12
9. Physical Education—two years of service courses.....	4
	124

*Students preparing to teach modern languages are urged to take Education 301, 316, 317, and three additional semester hours in Education, to meet the requirements for a four-year high-school certificate.

*CURRICULUM IN
MUSIC EDUCATION

Minor—Education

Requirements

	HOURS
1. *Music—at least 24 semester hours of which 12 must be advanced	24
2. Education 301, 305, 316, 317, 376K, and 3† additional advanced hours in music methods	18
3. English 1 and 12 or 12Q.....	12
4. Foreign language—the completion of a course numbered 12 or 13	12
5. Science (laboratory)—Twelve semester hours.....	12
6. †Mathematics	6
7. Social studies—twenty-one semester hours, including Government 10, History 301 and 302, Economics 312, Philosophy 330 and 331	21
8. Electives and additional courses, including six semester hours of advanced courses	15
9. Physical Education—two years of service courses.....	4
	124

*During 1947-48 this major will be offered only in Band. The following courses in Music are required: Theory 1 and 11; Band Ensemble 201, 211, 221, 231; Class Instruments 325 and 326; Methods 352s; Music Literature 331 and 334 and four semester hours in piano, voice or chorus.

†Band majors must include three semester hours of advanced band methods (Education 377).
‡Six semester hours of a second language may be substituted.

CURRICULUM IN
MUSIC THEORY MAJOR

Minor—Applied Music

Requirements

	HOURS
1. Music 1, 11, 21, 331, and 334.....	24
2. Applied Music—eighteen semester hours, six of which must be advanced.....	18
3. English 1 and 12 or 12Q.....	12
4. Foreign language—the completion of a course numbered 12 or 13.....	12
5. Science (laboratory)—twelve semester hours.....	12
6. †Mathematics.....	6
7. Social Studies—twenty-one semester hours, including Govern- ment 10, History 301 and 302, Economics 312, Philosophy 330 and 331.....	21
8. *Electives and additional courses, including Chorus 205 and six semester hours of advanced courses.....	15
9. Physical Education—two years of service courses.....	4
	124

*Those students who desire a music teacher's certificate should confer with the Head of the Music Department concerning the necessary courses in education, music, piano, and methods.

†Six hours of a second language may be substituted.

**CURRICULUM IN
PHYSICAL EDUCATION MAJOR**
Minor*—See Group B under "Concentrations"

Requirements

	HOURS
1. Physical Education—twenty-four semester hours, twelve of which must be advanced.....	24
2. *Minor—eighteen semester hours, six of which must be advanced	18
3. English 1 and 12 or 12Q.....	12
4. †Education 301, 316, and 317 or Education 301, 314, and 318, and three additional semester hours.....	12
5. Natural Science—Zoology 301 and 302 and Biology 310 and 311	12
6. Mathematics	6
7. Social Studies—History 301 and 302, Government 10, Economics 312, and Philosophy 330 and 331.....	21
8. Electives including six semester hours of practice teaching....	15
9. Physical Education—two years of service courses.....	4
	124

*Majors in Physical Education are strongly urged to have one minor in Health Education.

†These courses are to be chosen according to the classification of teacher's certificate desired instead of language.

CURRICULUM IN

PSYCHOLOGY

Minor—See Group B under "Concentrations"

Requirements

	HOURS
1. Psychology 310, 311 or 316, 351, 362 and twelve additional hours, six of which must be advanced.....	24
2. Minor—eighteen semester hours, six of which must be advanced	18
3. English 1 and 12 or 12Q.....	12
4. *Foreign Language—the completion of a course number 12 or 13	12
5. Mathematics	6
6. Science—Physics 1, Zoology 301 and 302.....	12
7. Social Studies—twenty-one semester hours, including Government 10, History 301 and 302, Economics 312, Philosophy 330 and 331.....	21
8. †Electives, six semester hours of which must be advanced.....	15
9. Physical Education—two years of service course.....	4
	124

*French or German is strongly recommended.

†Students electing this major are advised to include Biology 310 and 311.

CURRICULUM IN

PUBLIC SPEAKING AND DRAMATICS MAJOR

Minor—See Group B under "Concentrations"

Requirements

	HOURS
1. Public Speaking—twenty-four semester hours, twelve of which must be advanced.....	24
2. Minor—eighteen semester hours, six of which must be advanced	18
3. English 1 and 12 or 12Q.....	12
4. Foreign Language—the completion of a course numbered 12 or 13.....	12
5. Science (laboratory)—twelve semester hours.....	12
6. Mathematics	6
7. Social Studies—twenty-one semester hours including Government 10, History 301 and 302, Economics 312, Philosophy 330 and 331.....	21
8. Electives, six semester hours of which must be advanced.....	15
9. Physical Education—two years of service courses.....	4
	124

CURRICULUM IN

RADIO MAJOR

Minor--See Group B under "Concentrations"

Requirements

	HOURS
1. Journalism 301, Radio 302, 314, 315 and twelve additional semester hours of radio, which must be advanced.....	24
2. Minor--eighteen semester hours, six of which must be advanced	18
3. English I and 12 or 12Q.....	12
4. Foreign language--the completion of a course numbered 12 or 13	12
5. Science (laboratory)--twelve semester hours.....	12
6. Mathematics	6
7. Social Studies--twenty-one semester hours, including Government 10, History 301 and 332, Economics 312, Philosophy 330 and 331.....	21
8. Electives, six semester hours of which must be advanced.....	15
9. Physical Education--two years of service courses.....	4
	124

**CURRICULUM IN
SCIENCE MAJOR***

Minor†—See Group A under “Concentrations”

Requirements

	HOURS
1. Major science—twenty-four semester hours, twelve of which must be advanced.....	24
2. †A second science—eighteen semester hours, six of which must be advanced	18
3. English 1 and 12 or 12Q.....	12
4. Foreign language—the completion of a course numbered 12 or 13	12
5. Science—(See No. 1 and No. 2).....	0
6. ‡Mathematics	6
7. Social Studies—twenty-one semester hours, including Government 10, History 301 and 302, Economics 312, Philosophy 330 and 331	21
8. Electives, twelve semester hours of which must be advanced....	27
9. Physical Education—two years of service courses.....	4
	124

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

†A minor other than science 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.

BACHELOR OF BUSINESS ADMINISTRATION

General Provisions.—The total number of hours required for the Bachelor of Business Administration degree is 124. At least 30 of the 124 semester hours must be advanced (upper division) courses and not more than 66 of the 124 semester hours may be offered in Business Administration. All other requirements affecting residence, grades, and graduation are the same as outlined in the catalogue for the Bachelor of Arts degree.

Requirements

	HOURS
1. Business Administration 311, 314, 332, 20, 23, 337, 354, and fifteen additional semester hours.....	42
2. English 1, and 12 or 12Q.....	12
3. Science (laboratory)	6
4. *Mathematics	6
5. Social Studies—including Government 10; Economics 312, 313, and 332; History 301 and 302; Philosophy—3 semester hours; Psychology—3 semester hours.....	27
6. Public Speaking	3
7. Electives, six semester hours of which must be advanced.....	24
8. Physical Education—two years of service courses.....	4
	124

*Mathematics 304 and 307 are recommended.

BACHELOR OF SCIENCE

In recognition of the needs for more concentrated study in the fields of science, the Texas College of Mines has provided for the extension of the Bachelor of Science degree to include certain of the sciences outside the Division of Engineering.

Fields of Concentration

Major: Biology, Chemistry, Geology, Physics.

Minor: Biology, Chemistry, Geology, Mathematics, Physics.

Requirements

The total number of semester hours required for the Bachelor of Science degree is 136.

At least 36 semester hours of upper division work must be included with a minimum of 15 of these upper division hours in the major field.

There must be a minimum of 60 semester hours in the sciences and/or mathematics.

	HOURS
1. First concentration (major in science, at least 15 semester hours of which must be advanced).....	30
2. Second concentration (second science or mathematics, six hours of which must be advanced).....	18
3. Third science	6
4. History 301 and 302, Economics 312, Philosophy 330 and 331 ..	15
5. English 1 and 12 or 12Q.....	12
6. Government 10.....	6
7. *Mathematics 803 (if not included in second concentration) ..	8
8. Electives, sufficient to bring total number of required hours for degree to 136 including enough advanced hours to complete the total of 36 advanced hours required.	
9. Physical Education—two years.....	4
Total	136

All other general requirements affecting residence, grades, and graduation are the same as outlined in this catalogue for the Bachelor of Arts degree.

*Mathematics 304-309 may be substituted for Mathematics 803 in the Biology major-Geology minor combination. Students who desire to take Engineering 313, in connection with the Geology major may substitute Mathematics 305-306 for Mathematics 803.

MASTER OF ARTS

General information.—Graduate study officially began in the Summer Session in June, 1941. Courses in Education, English, History, and Spanish 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, French, Geology, Government, Mathematics, Physical Education, Physics, Psychology, Sociology, 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.

Applications for admission are to be made in the office of the Registrar. Transcripts of all work, undergraduate and graduate, done elsewhere must be furnished the Registrar.

Graduate credit for work done in the College of Mines before June, 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.

Undergraduates.—Undergraduates after completion of 93 semester hours may be permitted, upon application to the Graduate Council, to take approved courses for credit in the Graduate Division.

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.

PREPARATORY WORK FOR OTHER DEGREES**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 the Degree of 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; Physical Education.

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

Junior Year: Chemistry 821; Government 10; three semester hours in economics; Zoology 320 and 321; *History 315 and 316; Philosophy 330.

Work Preparatory to the Degree of Law**Leading to Degree of Bachelor of Arts**

The successful completion of the following courses plus 28 semester hours of work in the School of Law at The University of Texas leads to the Bachelor of Arts degree:

	HOURS
1. English	12
2. Mathematics	6
3. The completion of a course numbered 12 or 13 in a foreign language	12
4. Natural sciences (including Chemistry 801 or 1 or Physics 801 or 1 and Botany 301 and 302, or Geology 301 and 302, or Zoology 301 and 302)	12
5. Social sciences (including Government 10, *History 315 and 316, Economics 312, Philosophy 330 and 331, nine advanced semester hours)—Not more than 12 semester hours of a freshman social science may be counted.....	36
6. Electives, six of which must be advanced.....	15
7. Physical Education—2 years.....	4
Total	97

Work Preparatory to Other Engineering Degrees

Uniform Freshman Year.—First semester: Mathematics 803a, Chemistry 801a, Drawing 301, English 1a, Physics 1a, Engineering 01, Physical Education. Second semester: Mathematics 803b, Chemistry 801b, Drawing 302, English 1b, Physics 1b, Physical Education. Additional courses are offered.

*History 301 and 302 do not satisfy the admission requirements for medicine in The University of Texas.

*History 301 and 302 do not satisfy the admission requirements for law in The University of Texas.

such as to enable a student to complete at least 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 minimum requirements for the six-year elementary teacher's certificate are sixty semester hours including English 1, Government 10, and twelve semester hours of education, at least six of which must be in the elementary field.

The minimum requirements for the four-year high-school teacher's certificate are sixty semester hours, including English 1, Government 10, and twelve semester hours of education, at least six of which must be in the secondary field.

The minimum requirements for the six-year high-school certificate are ninety semester hours, including English 1, Government 10, and eighteen semester hours of education, six hours of which must deal with high-school teaching and one course which shall include at least thirty-six recitation hours of practice teaching.

A student who holds a B.A. or B.S. degree from the College of Mines is entitled to a permanent high-school certificate, provided he has twenty-four semester hours in education, including Education 327 and 327T.

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*.

ART

ASSISTANT PROFESSOR WISE; INSTRUCTOR COOGLER

301j. *Elementary Design*

A course stressing principles of art, and planned to develop the creative ability of the student. Color, theory, values, balance, rhythm, composition and other design elements and principles studied. The organization of ideas into creative design. Media used, tempora, water color, ink, etc.

Credit value: Three semester hours. Fee: \$2.00 Three lecture and three laboratory hours per week for one semester.

302s. *Elementary Design*

Continued study of fundamental principles of design with emphasis upon composition and application of design in various fields. Organization of material gained in sketching and research into design elements. Consideration of technique of handling pencil, water color, tempora, etc.

Prerequisite: Design 301. Credit value: Three semester hours. Fee: \$2.00. Three lecture and three laboratory hours per week for one semester.

303j. *Weaving*

Practical work in weaving cloth bags, table settings, scarfs, etc. The setting up of looms, study of textiles and weaves, and the proper combinations of weaves, color, and design in textiles. Originality in weaving stressed.

Credit value: Three semester hours. Fee: \$2.00. Three lecture and three laboratory hours per week for one semester.

304j. *Pottery*

A study of the methods of pottery making, coil building, wheel throwing, slip casting and various methods, glazing, operations of kilns. Emphasis placed on simplicity of form of vases, containers, etc., decorative tiles and plates.

Credit value: Three semester hours. Fee: \$2.00. Three lecture and three laboratory hours per week for one semester.

305j. *Metal Work and Jewelry*

Designing and making of jewelry in silver and other suitable materials. Study of modern and primitive design in rings, pins, bracelets, ear rings, etc. Soldering methods.

Credit value: Three semester hours. Fee: \$2.00. Three lecture and three laboratory hours per week for one semester.

305ks. Metal Work and Jewelry

A continuation of the study of jewelry design and methods of making jewelry and metal objects.

Credit value: Three semester hours. Fee: \$2.00. Three lecture and three laboratory hours per week for one semester.

306. Sketching

The principles of freehand drawing and sketching, including study of mass, form, and composition. Also, perspective, light, shadow, shade, and reflections studied, with color and value considered. Media, pencil, water color, tempera, and oil. Flower studies, landscapes, buildings, etc., will be drawn. Sketching trips planned. Given in summer session.

Credit value: Three semester hours. Fee: \$2.00. Three lecture and three laboratory hours per week for one semester.

307s. Craft Essentials

A course in the essential elements of craft design. The making of jewelry in silver and other suitable materials. Plates, ash trays, boxes, etc., made in metals. Pottery making and ceramics.

Credit value: Three semester hours. Fee: \$2.00. Three lecture and three laboratory hours per week for one semester.

307kf. Basic Crafts

A study of the crafts, particularly jewelry and ceramics. Procedure from the simplest forms to complex pieces, such as brooches, pins, bracelets, bowls, and trays, figurines, and other pottery objects made in class.

Credit value: Three semester hours. Fee: \$2.00. Three lecture and three laboratory hours per week for one semester.

308s. Weaving

The study of weaving on floor and table looms, of linens, place mats, scarfs, belts, etc. Also tapestry patterns and primitive designs.

Prerequisite: Weaving 305. Credit value: Three semester hours. Fee: \$2.00. Three lecture and three laboratory hours per week for one semester.

309s. Pottery and Ceramics

A study of the methods of making pottery by coil, slab wheel throwing and slip casting. Modeling of figures and animals. Glazing and firing in the kiln.

Prerequisite: Pottery 304. Credit value: Three semester hours. Fee: \$2.00. Three lecture and three laboratory hours per week for one semester.

309mf. History of Furniture Design

History of furniture from Jacobean through Early American, Eighteenth Century English, etc., to modern; also French, Spanish, and Italian furniture design. Distinguishing characteristics, woods, and proper architectural backgrounds will be studied.

Credit value: Three semester hours. Three lectures per week for one semester.

309n. Life Drawing from the Costumed Model

Study of the human form, its balance, rhythm and plastic qualities. Special study of head, face and hands, and of composition of the human figure in space.

Credit value: Three semester hours. Fee: \$2.00. Three lecture and three laboratory hours per week for one semester.

309k/s. Sculpture

A course in sculpture, comprehensive in scope. Cast sketching, sight and visual training in plastic form, portrait modeling, general modeling, wood carving, stone cutting and plaster casting may be studied but different phases emphasized according to the aptitudes of the students.

Credit value: Three semester hours. Fee: \$2.00. Six hours per week of lecture and laboratory for one semester.

315f. Survey of Art Fields

A survey of art fields, with problems in designing furniture interiors, stage settings, advertising, fashions, etc. Development of good taste and sense of proportion and values in study of design for modern living.

Prerequisite: Design 301 and 302. Credit value: Three semester hours. Fee: \$2.00. Three lecture and three laboratory hours per week for one semester.

316s. Survey of Art Fields

Continued study of design for modern living. Study of materials and how to make the most of them in design.

Prerequisite: Design 315. Credit value: Three semester hours. Fee: \$2.00. Three lecture and three laboratory hours per week for one semester.

320f. Art History and Appreciation

A study of the most important works of art from early periods, Egyptian, Greek, Chinese, etc., through Byzantine, Medieval, and the Renaissance era. Art and its part in history and life through the ages. Lectures illustrated by pictures and color slides.

Prerequisite: Junior standing. Credit value: Three semester hours. Three lecture hours per week for one semester.

320ks. Art History and Appreciation

Art history from the post-Renaissance or literal period through French Impressionists, etc., to modern times. Analyses of motives and techniques of artists, with view of better understanding and appreciation of their work. Lectures illustrated by pictures and color slides.

Prerequisite: Junior standing. Credit value: Three semester hours. Three lecture hours per week for one semester.

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, opaque water color, linoleum blocks, making of marionettes, notebook covers, etc. Study of methods of developing creative ability of the child.

Prerequisite: Junior standing and Art 301. Credit value: Three semester hours. Three lecture hours per week for one semester.

322f. Painting

The development of visual structure in painting. Direct study of outdoor subjects. Landscape composition in black and white and color. Portrait and still life drawing and painting.

Prerequisite: Art 315 and 316. Credit value: Three semester hours. Fee: \$2.00. Three lecture and three laboratory hours per week for one semester.

323s. Painting

Study of various techniques in painting. Organization of materials for landscape painting, murals, illustrations, etc. Outdoor work.

Prerequisite: Art 315 and 316. Credit value: Three semester hours. Fee: \$2.00. Three lecture and three laboratory hours per week for one semester.

324f. Metal Work and Jewelry

The designing and making of jewelry and other objects, with particular emphasis on decorative design. Study of primitive design such as Chinese, Aztec, Mayan for inspiration in decorative form, as well as modern conceptions. The use of semi-precious stones in jewelry.

Prerequisite: Twelve semester hours of art, including Design 301 and 302, and Jewelry 305 and 305k. Credit value: Three semester hours. Fee: \$2.00. Three lecture and three laboratory hours per week for one semester.

325s. Metal Work and Jewelry

Constructive work in creating useful and original objects, in functional designs and decorative forms. The use of available metals and other materials in creating costume jewelry, plates, trays, etc.

Prerequisite: Metal Work and Jewelry 324. Credit value: Three semester hours. Fee: \$2.00. Three lectures and three laboratory hours per week for one semester.

329f. Advanced Sculpture

Study of material and plastic form. Figure composition in black and white. Portrait modeling, study of anatomy and life sketching.

Prerequisite: Junior standing. Credit value: Three semester hours. Fee: \$2.00. Three lecture and three laboratory hours per week for one semester.

BIOLOGICAL SCIENCES

PROFESSOR BERKMAN; ASSISTANT PROFESSOR JENNESS;
INSTRUCTOR WRIGHT

Courses 316 and 317 may not be used to satisfy the science requirement for the B.A. degree or the B.S. degree.

Anatomy and Physiology

306. Anatomy and Physiology

Study of a typical animal cell, mitosis and cell division, and a survey of the following: histology of mammalian tissues, the human skeleton, muscles of the body, the circulatory and the nervous systems, and physiology and the human body in general. This course is not open to students other than pre-clinical nurses and to students in a school of nursing.

Credit value: Three semester hours. Fee: \$2.00. Two lectures and three laboratory hours per week for one semester.

Biology

303. Microbiology

A study of microbes with emphasis on the more common pathogenic forms including both bacteria and protozoans, the laboratory assignments emphasizing culture technique, staining technique, histology of the blood, blood groups and typing of blood groups. This course is not open to students other than pre-clinical nurses and to students in a school of nursing.

Credit value: Three semester hours. Fee: \$2.00. Two lectures and three laboratory hours per week for one semester.

310. Biology of the Human Body

A survey of the anatomy of the human body with emphasis on the skeletal system and skeletal muscles.

Prerequisite: Zoology 302, or six semester hours of biology. Two lectures and three laboratory hours per week for one semester. Fee: \$2.00. Credit value: Three semester hours.

311. Introduction to Human Physiology

A survey of human physiology, emphasizing the relation of functions to physical exercise.

Prerequisite: Biology 310. Two lectures and three laboratory hours per week for one semester. Fee: \$2.00. Credit value: Three semester hours.

316f. Heredity

Fundamental principles of heredity in their application to animals, plants, and mankind. Lectures are supplemented with a study of prepared slides of *Drosophila*.

Prerequisite: Sophomore standing or six semester hours of a laboratory science. Credit value: Three semester hours. Three lectures per week for one semester.

317s. Evolution

Evidence and method of evolution; trends evolution has taken, and the influence of the doctrine of evolution on society.

Prerequisite: Sophomore standing or six semester hours of a laboratory science. Credit value: Three semester hours. Three lectures per week for one semester.

330s. Technique in Histology and Cytology

Fixing, imbedding, sectioning, staining, and mounting cells and tissues for critical analysis.

Prerequisite: Chemistry 413, or 21, or 821, or Bacteriology 29, or 12 semester hours of zoology, or botany. Credit value: Three semester hours. Fee: \$2.00. Two lectures or the equivalent and three laboratory hours per week.

Bacteriology

29. General Bacteriology

Principles of bacteriology; study and isolation of nonpathogenic and pathogenic forms; investigation of water, milk, and sewage; bacterial antagonism; immunology.

Prerequisite: Twelve semester hours in any one of the natural sciences, or a combination of twelve semester hours in natural sciences and Junior standing. Credit value: Six semester hours. Fee: \$2.00 per semester. Two lectures and three laboratory hours per week for two semesters.

Botany

301f. General Botany

Structure and physiology of the plant cell; survey of the algae and fungi coupled with an exposition of their functional relationship to man.

Credit value: Three semester hours. Fee: \$2.00. Two lectures and three laboratory hours per week for one semester.

302s. General Botany

A survey of the mosses, ferns, and seed plants, including discussions on their relationship to society of man.

Prerequisite: Botany 301. Credit value: Three semester hours. Fee: \$2.00. Two lectures and three laboratory hours per week for one semester.

Zoology

No credit will be given for any advanced course in zoology taken concurrently with Zoology 14 until Zoology 14 has been completed.

301f. General Zoology

Theoretical Biology, followed by a survey of the invertebrates and their relationship to health problems and the economic phase of man's life.

Credit value: Three semester hours. Fee: \$2.00. Two lectures and three laboratory hours per week for one semester.

302s. General Vertebrate Zoology

A general survey of the protochordates, cyclostomes, the dogfish, and the frog, followed by a few exercises on animal histology and genetics.

Prerequisite: Zoology 301. Credit value: Three semester hours. Fee: \$2.00. Two lectures and three laboratory hours per week for one semester.

14. Vertebrate Zoology and Comparative Anatomy

A comparative study of the anatomy of the dogfish, an amphibian (*Necturus*), the turtle, pigeon, and a mammal, with emphasis on development and relationship of such evolution to the developmental anatomy of man.

Prerequisite: Zoology 302. Credit value: Six semester hours. Fee: \$2.00 per semester. Two lectures and four laboratory hours per week for two semesters.

320s. Animal Cytology and Histology

Study of structure, differentiation, and function of cells.

Prerequisite: Zoology 14; for juniors and seniors, Zoology 302 completed with a grade not lower than C, and Zoology 14 concurrently. Credit value: Three semester hours. Fee: \$2.00. Two lectures and three laboratory hours per week for one semester.

321f. Vertebrate Embryology

Detailed study of the development of the chick and mammalian embryos.

Prerequisite: Zoology 14; for juniors and seniors, Zoology 302 completed with a grade not lower than C, and Zoology 14 concurrently. Credit value: Three semester hours. Fee: \$2.00. Two lectures and three laboratory hours per week for one semester.

BUSINESS ADMINISTRATION AND ECONOMICS

PROFESSOR HARTRICK; ASSISTANT PROFESSOR SPENCER; INSTRUCTORS
BLACK, SMITH, SAYLES

A student majoring in the department of Economics and Business Administration may elect a degree in Bachelor of Arts or Bachelor of Business Administration. For those preparing particularly for business careers, the Bachelor of Business Administration Degree is recommended. Those students choosing the Bachelor of Arts Degree may major in Economics or Business Administration.

Experience has shown that students interested in particular fields of work will benefit by including certain courses in their degree plans. (a) For

persons interested in General Economics: among others, Economics 321, 322, 331, 332, 337, 343, 344, and 359, and Business Administration 311 and 314; (b) for students interested in General Business Training: among others, Business Administration 202, 203, 23, 331, 337, 338, 342, 344, 357, and 359, and Economics 312 and 313; (c) for students interested in Accounting: among others, Business Administration 23, 326, 327, 329, 330, 338, and 359, and Economics 312 and 313; (d) for students interested in Secretarial Science: among others, Business Administration 202, 203, 10, 20, 21, 334, 335, 359, 331, and 342, and Economics 312 and 313; (e) for students interested in foreign trade: among others, Economics or Business Administration 337, 344, 348, 350, 351, and 359.

Note to majors and minors in this department.—In order that the courses may be coördinated and planned in advance for you, you are urged to counsel with the head of this department before registration in your sophomore year. Advice at this stage may prevent subsequent difficulties in your program.

Business Administration

202. *Elementary Typewriting*

A course for beginners in typewriting covering a general knowledge of the care and operation of a typewriter, copy work, letter writing, and forms.

Credit value: Two semester hours. Fee: \$2.00. Three class and three laboratory hours per week for one semester.

203. *Intermediate Typewriting*

A continuation of B.A. 202 designed to increase speed and accuracy in typewriting while increasing the ability to plan and prepare advanced copy work.

Prerequisite: B.A. 202 or one admission unit in typewriting or its equivalent. Credit value: Two semester hours. Fee: \$2.00. Three class and three laboratory hours per week for one semester.

10. *Elementary Shorthand*

A course designed to present the elementary principles of Gregg shorthand covering reading, penmanship, and simple transcription.

Prerequisite: B.A. 203 or its equivalent or sophomore standing. Credit value: Six semester hours. Fee: \$2.00 per semester. Three class and two laboratory hours per week for two semesters.

311. *Theory and Practice in Accounting*

Principles of double-entry bookkeeping and theories of general financial accounting. The analysis and recording of business transactions, adjusting and closing entries. Financial statements, sole proprietorship accounting and practice set. Use of worksheets.

Prerequisite: Sophomore standing. Credit value: Three semester hours. Fee \$2.00. Three lectures and three laboratory hours per week for one semester.

314. *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 sets on partnerships and corporations.

Prerequisite: Business Administration 311. Credit value: Three semester hours. Fee: \$2.00. Three lectures and three laboratory hours per week for one semester.

20. *Business Letters and Report Writing*

The writing of clear, concise and forceful business letters. Practical business situations are given as the bases for letter assignments. Practice in writing sales letters, credit letters, adjustments, claim, order, rejection, collection, and application letters. Part of course is given over to the theory and practice of report writing.

Prerequisite: English 12 or 12Q; Business Administration 314; the ability to type accurately. Credit value: Six semester hours. Three class hours per week for two semesters.

21. *Advanced Stenography*

Training in advanced secretarial practice. Development of speed and accuracy in shorthand and typing. Character study and practice dictation of medical, legal and engineering phraseology. Technique in letter layouts. Practice in receiving messages and transcribing from dictating machines.

Prerequisite: Business Administration 203 and 10 or their equivalent. Credit value: Six semester hours. Fee: \$2.00 per semester. Three lectures and three laboratory hours per week for two semesters.

23. *Business Law*

Textbook and case method. Cases on law of contracts, agency, bailments, sales, mortgages, negotiable instruments. Special emphasis on Texas interpretation of these legal principles.

Prerequisite: Economics 313 or Business Administration 314. Credit value: Six semester hours. Three class hours per week for two semesters.

326. *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, analysis of working capital.

Prerequisite: Business Administration 314. Credit value: Three semester hours for one semester.

327. *Intermediate Accounting, Second Course*

Theory involved in partnership accounting, venture accounts, accounting for receiverships, parent and subsidiary accounting, consolidated balance sheets, foreign exchange accounting, estates and trusts, budgets, public accounts, bank accounting.

Prerequisite: Business Administration 326. Credit value: Three semester hours. Three class hours per week for one semester.

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. Three class hours per week for one semester.

330. *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 326. Credit value: Three semester hours. Three class hours per week for one semester.

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. Three class hours per week for one semester. (May not be counted for credit in addition to Economics 331.)

332. *Business Statistics*

Training in quantitative methods of analysis used in dealing with mass data. The use of graphic and tabular presentations, organizing and describing data, the frequency distribution, measures of central tendency, dispersion, skewness, time series analysis, correlation.

Prerequisite: Six semester hours of mathematics and junior standing. Credit value: Three semester hours. (May not be counted for credit in addition to Economics 329.) Fee: \$2.00. Three lectures and three laboratory hours per week for one semester.

334. *Office Organization and Practice*

Practice in the use of dictating, bookkeeping, and duplicating machines, operation of a telephone switchboard. Filing, advanced dictation and transcription practice. Designed for students intending to go into office work.

Prerequisite: Business Administration 203 and 10, or their equivalent, and 314. Credit value: Three semester hours. Fee: \$2.00. Three class hours and three laboratory hours per week for one semester.

335. *Office Management*

The location, equipment, organization, and general routine practice within the modern business office. Two viewpoints are presented: that of the office manager, and that of the office employee. Designed primarily for students going into office work.

Prerequisite: Business Administration 314 and Economics 313. Credit value: Three semester hours. Three class hours per week for one semester.

337. *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.

Prerequisite: Business Administration 314. Credit value: Three semester hours. Three class hours per week for one semester. (May not be counted for credit in addition to Economics 337.)

338. *Federal Tax Accounting*

The accountant's viewpoint of Federal taxes. Theory and problems in income taxation for the individual, the partnership, and the corporation. Accounting for taxes of estates and trusts, capital stock taxes, excess profits taxes, gift taxes, personal holding companies. Preparation of income tax forms and a study of the most recent Federal revenue acts.

Prerequisite: Business Administration 314. Credit value: Three semester hours. Three class hours per week for one semester.

339. *Business Salesmanship*

A study of the economic problems connected with personal selling; an analysis of the products and the market; the planning and execution of an interview; building good will; consideration of the relationship between the salesman and his employer.

Prerequisite: Business Administration 314. Credit value: Three semester hours.

341. *Advanced Banking Theory and Practice*

A study of banking in its relation to the business world, promotion and incorporation, banking organization and powers, the directors, stockholders, clearing and collecting systems, credit analysis, banking departments, the Federal Reserve System.

Prerequisite: Economics 322 or Business Administration 354. Credit value: Three semester hours. Three class hours per week for one semester. (May not be counted for credit in addition to Economics 341.)

342. *Personnel Management and Production Problems*

Policies and managerial techniques for employment, wage and salary payment, joint relations through labor unions and company representation plans. Principles underlying modern production; problems of small and large businesses using manufacturing processes.

Prerequisite: Business Administration 314. Credit value: Three semester hours. Three class hours per week for one semester. (May not be counted for credit in addition to Economics 342.)

344. *Modern Transportation and Communication*

A survey of peculiar problems and related public policies with emphasis upon the modern era of promotion and regulation of transportation and telephone and radio communication. Development of water, railroad, motor and air transportation. Problems of monopoly, service, safety, rates and costs. Development of regulatory policies. Private and governmental promotion. F.C.C. control of telephone and broadcasting services.

Prerequisite: Business Administration 314. Credit value: Three semester hours. Three class hours per week for one semester. (May not be counted for credit in addition to Economics 344.)

345. *Business Cycles and Forecasting*

History and theories of the business cycle; possibilities and limitations in scientific prediction of commodity prices, sales volume, industrial production, industrial growth and decay, security prices and business profits; a study of professional forecasting services.

Prerequisite: Economics 329 or Business Administration 332. Credit value: Three semester hours. Three class hours per week for one semester. (May not be counted for credit in addition to Economics 345.)

347. *Consumer Purchasing*

A study of the position of the consumer in present-day society. Factors influencing consumer choice; costs and standards of living; household budgeting; installment buying; consumer protective organizations; positive and restrictive governmental aid to the consumer.

Prerequisite: Economics 313. Credit value: Three semesters hours. Three class hours per week for one semester. (May not be counted for credit in addition to Economics 347.)

348. *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 future of trade relations between the United States and the Southern Hemisphere republics.

Prerequisite: Economics 313. Credit value: Three semester hours. Three class hours per week for one semester. (May not be counted for credit in addition to Economics 348.)

349. *Labor Problems*

History of the labor movement in the United States; problems arising from the employer-employee relationship; governmental agencies; legislation; current issues.

Prerequisite: Economics 313. Credit value: Three semester hours. Three class hours per week for one semester. (May not be counted for credit in addition to Economics 349.)

350. *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 foreign transactions.

Prerequisite: Economics 313. Credit value: Three semester hours. Three class hours per week for one semester. (May not be counted for credit in addition to Economics 350.)

351. *Trade Promotion with Mexico*

A study of the interchange of products between the United States and Mexico, including the history, production, transportation, sales promotion, financing, and legal factors affecting this movement.

Prerequisite: Economics 313. Credit value: Three semester hours. Three class hours per week for one semester. (May not be counted for credit in addition to Economics 351.)

354. *Short-term Finance*

Studies of the principles of money and banking systems of the United States and selected foreign countries, important underlying theories. History of the precious metals, bimetallism, banking development, relation of money and credit to prices, foreign exchange principles.

Prerequisite: Business Administration 314 or Economics 313. Credit value: Three semester hours. Three class hours per week for one semester. (May not be counted for credit in addition to Economics 322.)

357. *Investments*

Investment principles, investment banking, security analysis, security classification including rails, industrials, utilities, governments and others. Principally considers investor's viewpoint.

Prerequisite: Business Administration 314. Credit value: Three semester hours. Three class hours per week for one semester. (May not be counted for credit in addition to Economics 357.)

359. *General Insurance*

Risk, its nature and economic significance. The insurance contract, fire insurance, marine insurance, property insurance, life insurance, burglary, robbery, and theft insurance, types of carriers, State supervision of insurance carriers. Social insurance.

Prerequisite: Business Administration 314 or Economics 313. Credit value: Three semester hours. Three class hours per week for one semester. (May not be counted for credit in addition to Economics 359.)

360. *Life Insurance*

Principles underlying life insurance; business and personal uses; types of policies and carriers; organization, administration and supervision of risk carriers.

Prerequisite: Business Administration 314 or Economics 313. Credit value: Three semester hours. Three class hours per week for one semester. (May not be counted for credit in addition to Economics 360.)

Economics

312. *Principles of Economics*

A general survey of the principles and facts 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. Three class hours per week for one semester.

313. *Principles of Economics*

A continuation of Economics 312. The principles of economics as related to distribution in a capitalistic society. Theories underlying the determination of rent, wages, interest and profits. Public utilities, protective tariffs, and the business cycle, public revenue, taxation, and public credit.

Prerequisite: Economics 312. Credit value: Three semester hours. Three class hours per week for one semester.

321. *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 and public credit.

Prerequisite: Economics 313. Credit value: Three semester hours. Three class hours per week for one semester.

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 underlying theories. History of the precious metals, bimetallism, banking development, relation of money and credit to prices, foreign exchange principles.

Prerequisite: Economics 313. Credit value: Three semester hours. Three class hours per week for one semester. (May not be counted for credit in addition to Business Administration 354.)

329. *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, and correlation.

Prerequisite: Economics 313 and six semester hours of mathematics. Credit value: Three semester hours. (May not be counted for credit in addition to Business Administration 332.) Fee: \$2.00. Three lectures and three laboratory hours per week for one semester.

331. *Business and Government*

Government in a regulatory capacity and a coöperative 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: Economics 313. Credit value: Three semester hours. Three class hours per week for one semester. (May not be counted for credit in addition to Business Administration 331.)

332. *Corporation Finance*

The promotion of corporations, sources of capital, 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. Three class hours per week for one semester.

337. *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.

Prerequisite: Economics 313. Credit value: Three semester hours. Three class hours per week for one semester. (May not be counted for credit in addition to Business Administration 337.)

341. *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 systems, credit analysis, banking departments, the Federal Reserve System.

Prerequisite: Economics 322 or Business Administration 354. Credit value: Three semester hours. Three class hours per week for one semester. (May not be counted for credit in addition to Business Administration 341.)

342. *Personnel Management and Production Problems*

Policies and managerial techniques for employment, wage and salary payment, joint relations through labor unions and company representation plans. Principles underlying modern production; problems of small and large businesses using manufacturing processes.

Prerequisite: Economics 313. Credit value: Three semester hours. Three class hours per week for one semester. (May not be counted for credit in addition to Business Administration 342.)

343. *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. Three class hours per week for one semester.

344. *Modern Transportation and Communication*

A survey of peculiar problems and related public policies with emphasis upon the modern era of promotion and regulation of transportation and telephone and radio communication. Development of water, railroad, motor and air transportation. Problems of monopoly, service, safety, rates, and costs. Development of regulatory policies. Private and governmental promotion. F.C.C. control of telephone and broadcasting services.

Prerequisite: Economics 313. Credit value: Three semester hours. Three class hours per week for one semester. (May not be counted for credit in addition to Business Administration 344.)

345. *Business Cycles and Forecasting*

History and theories of the business cycle; possibilities and limitations in scientific predictions of commodity prices, sales volume, industrial production, industrial growth and decay, security prices and business profits; a study of professional forecasting services.

Prerequisite: Economics 329 or Business Administration 332. Credit value: Three semester hours. Three class hours per week for one semester. (May not be counted for credit in addition to Business Administration 345.)

347. *Economics of Consumption*

A study of the position of the consumer in present-day society. Factors influencing consumer choice; costs and standards of living; household budgeting; installment buying; consumer protective organizations; positive and restrictive governmental aids to the consumer.

Prerequisite: Economics 313. Credit value: Three semester hours. Three class hours per week for one semester. (May not be counted for credit in addition to Business Administration 347.)

348. *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 future of trade relations between the United States and the Southern Hemisphere republics.

Prerequisite: Economics 313. Credit value: Three semester hours. Three class hours per week for one semester. (May not be counted for credit in addition to *Business Administration* 348.)

349. *Labor Problems*

History of the labor movement in the *United States*; problems arising from the employer-employee relationship; governmental agencies; legislation; current issues.

Prerequisite: Economics 313. Credit value: Three semester hours. Three class hours per week for one semester. (May not be counted for credit in addition to *Business Administration* 349.)

350. *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* foreign transactions.

Prerequisite: Economics 313. Credit value: Three semester hours. Three class hours per week for one semester. (May not be counted for credit in addition to *Business Administration* 350.)

351. *Trade Promotion with Mexico*

A study of the interchange of products between the United States and Mexico, including the history, production, transportation, sales promotion, financing, and legal factors affecting this movement.

Prerequisite: Economics 313. Credit value: Three semester hours. Three class hours per week for one semester. (May not be counted for credit in addition to *Business Administration* 351.)

357. *Investments*

Investment principles, investment banking, security analysis, security classification, including rails, industrials, utilities, governments and others. Principally considers investor's viewpoint.

Prerequisite: Economics 313. Credit value: Three semester hours. Three class hours per week for one semester. (May not be counted for credit in addition to *Business Administration* 357.)

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 the factors of production, international commercial entanglements. International economic relations and the Second World War.

Prerequisite: Economics 313 and three semester hours of advanced economics. Credit value: Three semester hours. Three class hours per week for one semester.

359. *General Insurance*

Risk, its nature and economic significance; study of various forms of property, life, and social insurance; the insurance contract; types and state supervision of insurance carriers.

Prerequisite: Economics 313. Credit value: Three semester hours. Three class hours per week for one semester. (May not be counted for credit in addition to Business Administration 359.)

360. *Life Insurance*

Principles underlying life insurance; business and personal uses; types of policies and carriers; organization, administration, and supervision of risk carriers.

Prerequisite: Economics 313 or Business Administration 314. Credit value: Three semester hours. Three class hours per week for one semester. (May not be counted for credit in addition to Business Administration 360.)

CHEMISTRY

PROFESSOR LAKE; ASSISTANT PROFESSORS BALL, HANCOCK, NORMAN;
INSTRUCTORS GALATZAN, MELLEEN, SCRUGGS

1. *General 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.

Credit value: Six semester hours. Fee: \$2.00 per semester. Two lectures, one demonstration hour, and two laboratory hours per week for two semesters. May not be used as a prerequisite for any other chemistry course.

801. *General Chemistry*

The laws and theories of chemistry; the 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.

Credit value: Eight semester hours. Fee: \$4.00 per semester. Three lectures and three laboratory hours per week for two semesters.

305fs. *General Chemistry*

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.

Credit value: Three semester hours. May not be counted in addition to Chemistry 801a or 1a. Two lectures, one demonstration hour, and two laboratory hours per week for one semester. May not be used as a prerequisite for any chemistry course other than 801a.

306fs. Chemistry for Nurses

Elementary principles of chemistry with applications to the nursing profession. This course is not open to students other than pre-clinical nurses and to students in a school of nursing.

Credit value: Three semester hours. Fee: \$2.00. Three lectures and two laboratory hours per week for one semester.

311fs. Qualitative Analysis

Analytical reactions from the point of view of the laws of chemical equilibrium applied to solutions of electrolytes. Analysis of the common ions using the semi-micro technique.

Prerequisite: Chemistry 801a and 801b with a grade of not less than C in each. Credit value: Three semester hours. Fee: \$2.00. One lecture and six laboratory hours per week for one semester.

413fs. Quantitative Analysis

The quantitative analysis of salts, minerals, and industrial products.

Prerequisite: Chemistry 311. Credit value: Four semester hours, three of which may be counted as advanced. Fee: \$4.00. One lecture and eight laboratory hours per week for one semester.

415. Organic Chemistry

A one semester course in organic chemistry for pre-dental students.

Prerequisite: Chemistry 801. Credit value: Four semester hours. Fee: \$4.00. Three lectures and three laboratory hours per week for one semester.

21 and 821. Organic Chemistry

A study of the fundamental types of carbon compounds.

Prerequisite: For 821, Chemistry 413; for 21, Chemistry 801. Credit value: For 21, six semester hours; for 821, eight semester hours. Fee: \$2.00 per semester for 21, \$4.00 per semester for 821. Three lectures and three laboratory hours per week for 821 for two semesters. Students registering for 21 will receive the equivalent of two lectures and three laboratory hours per week for two semesters.

323fs. Quantitative Analysis

A continuation of Chemistry 413.

Prerequisite: Chemistry 413. Credit value: Three semester hours. Fee: \$2.00. One lecture and six laboratory hours per week for one semester.

460f. Physical Chemistry

Properties of substances in the gaseous, liquid, and solid state; solutions; thermochemistry.

Prerequisite: Chemistry 413, Mathematics 13, and Physics 1 or 812.
Credit value: Four semester hours. Fee: \$4.00. Three lectures and three laboratory hours per week for one semester.

461s. Physical Chemistry

Homogeneous and heterogeneous equilibria; kinetics of reaction, electrochemistry, and chemical thermodynamics.

Prerequisite: Chemistry 460. Credit value: Four semester hours. Fee: \$4.00. Three lectures and three laboratory hours per week for one semester.

261s. Physical Chemistry

This course covers part of the work covered by Chemistry 461 and is intended for students who elect the option in metallurgical engineering.

Prerequisite: Chemistry 460. Credit value: Two semester hours. Two lectures per week for one semester.

368s. Principles of Colloid Chemistry

Chemical and physical conditions of the colloid state.

Prerequisite: Chemistry 460. Credit value: Three semester hours. Fee: \$2.00. Two lectures and three laboratory hours per week for one semester.

396, 496, 596, 696fs. Introduction to Research

Credit will be granted, up to six semester hours, for research satisfactorily completed by advanced students in the Chemistry Department. Only specially qualified students approved by the Head of the Chemistry Department will be accepted for this work. Credit will be granted only in the senior year on the recommendation of the Head of the Chemistry Department.

Prerequisite: Permission of Head of the Chemistry Department. Credit value: Up to six semester hours as recommended by Head of the Chemistry Department. Fee: \$2.00 for 396; \$4.00 for 496; \$4.00 for 596; \$4.00 for 696 per semester.

EDUCATION

PROFESSORS FARQUEAR AND PUCKETT; ASSISTANT PROFESSOR HUTCHINS;
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

301Js. *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. Three lectures per week for one semester.

305Js. *The American School System*

The course, which is introductory to the study of education, gives attention to the relation of American public schools to social and economic changes, also to problems in the development of the curriculum, instructional practices, school organization, and administration.

Credit value: Three semester hours. Three lectures per week for one semester.

336Ts. *Current Curriculum Trends and Problems*

A study of present theory and practice of curriculum revision in elementary and secondary schools, and of the function of the school in present society.

Prerequisite: Six hours in Education and Junior standing. Credit value: Three semester hours. Three lectures per week for one semester.

338. *Problems in Elementary Education*

Emphasis is given to the following topics: philosophy and functions of the elementary school; the psychology of the child; the elementary school curriculum; and methods and techniques of planning.

Prerequisite: Twelve semester hours in Education, or permission of Chairman of the Department. Credit value: Three semester hours. Three lectures per week for one semester.

339. *The Education of Exceptional Children*

Consideration is given to the philosophy of the education of exceptional children and to the psychology and educational treatment of atypical pupils in elementary and secondary schools.

Prerequisite: Twelve semester hours in Education, or permission of Chairman of the Department. Credit value: Three semester hours. Three lectures per week for one semester.

339K. *Counseling and Vocational Guidance*

A study of the principles and methods used in counseling and vocational guidance. The counseling techniques used in school, home, personal life and social situations. The use of tests, interviews and other techniques in vocational selection and training.

Prerequisite: Twelve semester hours of education or permission of the Chairman of the Department. Credit value: Three semester hours: Three class hours per week for one semester. (May not be counted for credit in addition to Psychology 339.)

341j. Principles in Guidance

Consideration is given to the general meaning, importance, and function of guidance together with a survey of techniques and the evaluation of outcomes.

Prerequisite: Six hours in Education and Junior standing. Credit value: Three semester hours. Three lectures per week for one semester.

344s. Recent Educational Trends

Movements which have been important in the development of American education receive major attention. Consideration is also given to the relation of present educational trends to the war emergency.

Prerequisite: Six hours in Education and Junior standing. Credit value: Three semester hours. Three lectures per week for one semester.

349. 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: Six hours in Education and Junior standing. Credit value: Three semester hours. Three lectures per week for one semester.

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: Six hours in Education and Junior standing. Credit value: Three semester hours. Three lectures per week for one semester.

356. The Technique of Speech Correction

The technique of speech correction, involving diagnosis of speech defects and disorders, phonetics, principles of speech correction, and clinical practices in speech correction.

Prerequisite: Twelve semester hours in Education, or permission of Chairman of the Department. Credit value: Three semester hours. Three lectures per week for one semester. (May not be counted in addition to Public Speaking 356.)

357. Mental Hygiene and the Problems of Children

A study of the conditions and factors essential for healthful mental development. Methods of developing the personality of the child will be treated with special stress on the problems peculiar to the school child.

Prerequisite: Twelve semester hours in Education, or permission of Chairman of the Department. Credit value: Three semester hours. Three lectures per week for one semester. (May not be counted in addition to Psychology 357.)

359j. *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: Six hours in Education and Junior standing. Credit value: Three semester hours. Three lectures per week for one semester.

380. *A Workshop in the Development of Basic Educational Materials for Non-English Speaking Pupils*

Objectives of this workshop are to study the problems of teaching non-English speaking children and to develop a basic vocabulary and appropriate aids and materials to be used in effective instruction.

Prerequisite: Twelve hours in Education. Credit value: Three semester hours. Five conference periods per week and two additional hours daily of laboratory work for one semester.

381. *A Workshop for the Development of Basic Educational Materials for Non-English Speaking Pupils*

A previous workshop produced "A Manual of Aids and Devices for teaching Beginning Non-English Speaking Children" which covered the first-year level of public school work. The workshop for this summer will prepare teaching aids for the second and third-year levels of the bilingual's school experience. Some attention will be given to a revision of the previous bulletin.

Prerequisite: Twelve semester hours in Education, or permission of Chairman of the Department. Credit value: Three semester hours. Five conference periods and six additional hours of laboratory work per week for one semester.

382. *A Workshop in the Development of Basic Educational Materials for Non-English Speaking Pupils*

A seminar which deals with problems developed in Education 381.

Prerequisite: Twelve semester hours in Education, or permission of the Chairman of the Department. Education 382 must be taken concurrently with Education 381. Credit value: Three semester hours. Five lecture periods and six additional hours of laboratory work per week for one semester.

389. *Classroom Use of Audio-Visual Equipment and Materials*

Consideration will be given to various kinds of equipment and material associated with audio-visual education, and useful to the classroom teacher. Practical teaching materials in relation to different kinds of equipment will be developed. Some opportunity will be provided for classroom demonstrations.

Prerequisite: Twelve semester hours in Education, or permission of Chairman of the Department. Credit value: Three semester hours. Three lecture hours per week for one semester.

390. *Problems in Reading*

Special emphasis is given to remedial and corrective devices, and to reading problems in content fields. The course is intended for both elementary and secondary school teachers.

Prerequisite: Twelve semester hours in Education, or permission of Chairman of the Department. Credit value: Three semester hours. Three class hours per week for one semester.

98. *Thesis Course for Master's Degree*

Prerequisite: Twelve semester hours of advanced courses in Education; graduate standing; permission of chairman of department. Credit value: 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. Three lectures per week for one semester.

318s. *Introduction to Elementary Education*

An introduction to teaching in the elementary grades. Attention given to guiding learning through activities of children.

Prerequisite: Education 301 and Sophomore standing. Credit value: Three semester hours. Three lectures per week for one semester.

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: Six hours in Education and Junior standing. Credit value: Three semester hours. Three lectures per week for one semester.

328f. *Observation of Teaching in the Elementary School* (Formerly Education 28a)

A study of the principles of teaching and the observation of class work. A minimum of five hours weekly in the elementary classroom will be required during the semester, more time being assigned if necessary.

Prerequisite: Education 314 and 318. Credit value: Three semester hours. Two lectures and five laboratory hours per week for one semester.

328Ts. *Student-Teaching in the Elementary School* (Formerly Education 28b.)

The construction of lesson plans, and teaching under supervision. One hour daily for five days a week is required during the semester. The course may follow or be taken concurrently with Education 328.

Prerequisite: Education 314, 318 and 328. Credit value: Three semester hours. Five laboratory hours per week for one semester.

331Tf. *Methods and Materials of Instruction in the Elementary School*

This is an intensive study of methods for the elementary schools, with emphasis centered upon reading, social studies, arithmetic, and science. It includes observations, as well as a survey of the literature in each field.

Prerequisite: Education 314 and 318. Credit value: Three semester hours. Two lectures and three laboratory hours per week for one semester.

376. *Teaching and Supervision of Music in the Elementary Level*

The study of procedures in the teaching of music in the first six grades. The child voice, its development and classification. Introduction of notation, all kinds of song materials, rhythm bands, appreciation methods and creative music for children.

Prerequisite: Education 318 and four hours of music. Three class periods per week for one semester. Credit value: Three semester hours.

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. Three lectures per week for one semester.

317s. *An Introduction to High-School Teaching*

Basic principles of high-school teaching and high-school management are considered.

Prerequisite: Education 301 and Sophomore standing. Credit value: Three semester hours. Three lectures per week for one semester.

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. Three lectures per week for one semester.

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. Three lectures per week for one semester.

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. Three lectures per week for one semester.

327f. Observation of Teaching in the High School (Formerly 27a)

A study of the principles of teaching and the observation of class work.

Prerequisite: Education 316 and 317. Credit value: Three semester

hours. One hour daily for five days a week for one semester.

327Ts. Student Teaching in the High School (Formerly Education 27b)

The construction of lesson plans and teaching under supervision.

Prerequisite: Education 316, 317 and 327. Credit value: Three

semester hours. One hour daily for five days a week for one semester.

329f. 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. Three lecture hours per week for one semester.

376k. Teaching and Supervision of Music in the Junior and Senior High School

The study of procedure in the teaching of music in the upper level grades and in high school. General treatment of choral and instrumental music; music appreciation, theory and integration. Public school music as it is related to the life and needs of a community is fully studied.

Prerequisite: Education 317 and six hours of music. Three class periods per week for one semester. Credit value: Three semester hours.

377. Methods and Administration of Band Supervision

Band organization, teaching methods, promotion of program in community, instrumentation plans, equipping and housing of the band.

Prerequisite: Education 317 and nine hours of music. Three class periods per week for one semester. Credit value: Three semester hours.

ENGINEERING AND DRAWING

PROFESSOR THOMAS; ASSOCIATE PROFESSOR DECKER; ASSISTANT

PROFESSOR McDILL; INSTRUCTORS BATTENBERG, COLEMAN

Engineering

01. The Engineering Profession

A series of eight lectures designed to acquaint the freshman engineering student with the profession of engineering and the various fields of endeavor within the profession.

Required of all entering freshman engineering students.

Credit value: Zero hours. Semi-monthly lectures throughout the semester.

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. Credit value: Four semester hours. Fee: \$4.00. Three lectures and three laboratory hours per week for one semester.

312f. 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. Credit value: Three semester hours. Fee: \$2.00. One lecture and six laboratory hours per week for one semester.

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 notekeeping; the usual computations used in plane surveying; and an elementary discussion of precision.

Prerequisite: Mathematics 803 and Drawing 302. Credit value: Three semester hours. Three lectures a week for one semester.

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. Students must begin work on the day the field work opens. Credit value: Four semester hours. Fee: \$4.00. 192 hours.

415. Applied Mechanics

Graphical 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: Drawing 302, Physics 1, and Mathematics 13a in advance or concurrently. Credit value: Four semester hours. Fee: \$4.00. Three lectures and three laboratory hours per week for one semester.

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 521. Credit value: Three semester hours. Fee: \$2.00. Two lectures and three laboratory hours per week for one semester.

224. *Mine Surveying; Summer 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. Credit value: Two semester hours. Fee: \$2.00. Eight hours daily for two weeks, immediately following the close of the Spring semester.

226. *Economics Problems for Engineers*

Application of economics to engineering and industrial problems which require a knowledge of engineering for their solution.

Prerequisite: Economics 312 in advance or concurrently and senior standing in any engineering course. Credit value: Two semester hours.

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 12 or 812, and Mathematics 13. Credit value: Four semester hours. Fee: \$4.00. Three lectures and three laboratory hours a week for one semester.

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, and 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. Credit value: Five semester hours. Fee: \$4.00. Three lectures and six laboratory hours per week for one semester.

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, or Engineering 415. Credit value: Four semester hours. Fee: \$4.00. Three lectures and three laboratory hours per week for one semester.

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. Credit value: Three semester hours. Three lectures a week for one semester.

350s. Steam Power Plants

The fundamental equations of gases and their applications to the steam power machines; the heating values of different fuels; the construction and operation of steam boilers; boiler auxiliaries; different types of steam engine as regards speed, valves, steam consumption; comparative cost, and relative economy; adjustments of valves, and determination of horse power; steam turbines.

Prerequisite: Mathematics 13, and Physics 12 or 812. Credit value: Three semester hours. Three lectures a week for one semester.

354f. Hydraulics

Properties of fluids; hydrostatics; fluids in motion; flow of liquids through pipes, orifices, and over weirs; fluid friction and loss of head; Bernoulli's theorem; flow of water in canals and rivers; Kutter's formula; and graphical methods.

Prerequisite: Physics 12 or 812, and Mathematics 13. Credit value: Three semester hours. Three lectures a week for one semester.

Drawing

301f. Engineering Drawing

For all engineering students. Freehand lettering, geometrical construction, orthographic projection, auxiliary views, sectional views, dimensioning, working drawings, and pictorial methods.

Credit value: Three semester hours. Fee: \$2.00. Two one-half hour discussions and eight hours of supervised drawing a week for one semester.

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. Credit value: Three semester hours. Fee: \$2.00. Two one-half hour discussions and eight hours of supervised drawing per week for one semester.

302f. Descriptive Geometry

A repetition of 302s.

ENGLISH AND PUBLIC SPEAKING

PROFESSOR SONNICHSEN; ASSOCIATE PROFESSOR BRADY; ASSISTANT PROFESSORS MOSES, EGG; INSTRUCTORS EDLAND, FRANCIS, GORDON, JAMES,* JONES, LUBARR, McCARTY, MULLEN, PALMER, PONSFORD

English

For the degree of Bachelor of Arts twelve semester hours in English are required—English 1 and English 12 or 12Q. English 1 and English 310 are required for the degree of Bachelor of Science in Mining Engineering; English 1 and English 12 or 12Q for the degree of Bachelor of Science in the Sciences. English majors are advised to take English 12, but may elect English 12Q instead of English 12. Either English 12 or English 12Q may be presented as prerequisite to any advanced course in English.

A. Elementary English

A preliminary course for students to whom English is a second language. Intended to serve as preparation for English 1a.

Dictation, pronunciation, oral summaries, approved styles of note-taking, composition. May not be used to satisfy foreign language or English requirements.

Credit value: Six elective hours. Three class periods per week for two semesters.

*On leave, 1946-1947.

1. Freshman English

A basic course required of all Freshmen designed to help the student organize his information, clarify his thinking, and improve his written expression. Practice in writing is the first object of the course, but emphasis is also placed on reading for ideas and style; on exercises and drills to promote correctness in usage and grammar; on use of the library; and on the enlargement of vocabulary.

Credit value: Six semester hours. Three class periods per week for two semesters.

1a. Freshman English

Repetition of the first semester of English 1.

1Q. Special Freshman English

A course for exceptionally well prepared students with a special interest in writing. Reading assignments will include specimens of all types of good contemporary writing. Each student will be encouraged to turn in the best work he can do in various forms and styles.

Prerequisite: An average of at least *B* in high-school English or consent of the instructor.

Credit value: Six semester hours. Three class periods per week for two semesters.

1Qa. Special Freshman English

Repetition of the first semester of English 1Q.

302. Pre-Freshman English

Formerly English Ba. An introductory course for students unprepared to take English 1. Those whose entrance examinations or class exercises show a definite need for such a course will be required to register for English 302 on recommendation of the head of the English Department.

Credit value: Three semester hours. Three class periods per week for one semester.

303. Pre-Freshman English

Formerly English Bb. A continuation of English 302.

Prerequisite: English 302 or recommendation of the head of the English Department. Credit value: Three semester hours. Three class periods per week for one semester.

310. Technical Writing

For engineering students and others specializing in technical subjects. Training in assembling and evaluating technical information, outlining, preparing reports and specifications, and expressing effectively the students' own ideas.

Prerequisite: English 1. Credit value: Three semester hours. Three class periods per week for one semester.

12. *Outline History of English Literature*

Survey of English literature from the beginning to the present time with emphasis on major works and authors. Two essays on the life or literature of the periods covered are required of the student during each semester. English 12 is recommended for English majors.

Prerequisite: English 1. Credit value: Six semester hours. Three class periods per week for two semesters.

12a. *Outline History of English Literature*

Repetition of the first semester of English 12.

12Q. *English and American Literature of Today*

A course designed to replace English 12 for students not expecting to specialize in English. The reading includes novels, short stories, plays, poetry, and various types of nonfiction. Most of the material is by present-day writers, though examples of writing from earlier periods are frequently read for purposes of comparison and explanation. The object of the course is to help the student to orient himself in the world of the present through a study of its literature, and to help him to explore various kinds of reading in which he may find pleasure and profit throughout life. Two essays are required each semester on reading done outside the class.

Prerequisite: English 1. Credit value: Six semester hours. Three class periods per week for two semesters.

12Qa. *English and American Literature of Today*

Repetition of the first semester of English 12.

312Q. *English and American Literature of Today*

The first semester of English 12Q offered for Engineering students and others in need of three hours independent credit in literature. Prerequisite: English 1. Credit value: Three semester hours. Three class periods per week for one semester.

320. *Shakespeare: The Earlier Plays*

Detailed study of some 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. Three class periods per week for one semester.

321. *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. Three class periods per week for one semester.

322. *Victorian Poetry*

Consideration of the poetry 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. Three class periods per week for one semester.

323 *Victorian Poetry*

Consideration of the poetry of Browning 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. Three class periods per week for one semester.

325. *Writing*

A course for students seriously interested in developing their power of written expression.

Prerequisite: English 12 or 12Q and consent of the instructor. Credit value: Three semester hours. May be taken a second time for credit. Three class periods per week for one semester.

327. *An Outline History of the English Novel*

A study of prose fiction in England from the Middle Ages to the nineteenth century, particular attention being given to the novels of Richardson, Fielding, Smollett, Sterne, Walpole, Burney, Jane Austen, and Scott.

Prerequisite: English 12 or 12Q. Credit value: Three semester hours. Three class periods per week for one semester.

328. *An Outline History of the English Novel*

A continuation of English 327, with study of typical works of Dickens, Thackeray, the Brontes, George Eliot, Hardy, and Meredith.

Prerequisite: English 12 or 12Q. Credit value: Three semester hours. Three class periods per week for one semester.

329. *English Romantic Poetry, the Earlier Phase*

Rapid survey 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. Three class periods per week for one semester.

330. *English Romantic Poetry, the Later Phase*

Consideration of the works of Byron, Shelley, Keats, and some of their contemporaries.

Prerequisite: English 12 or 12Q. Credit value: Three semester hours. Three class periods per week for one semester.

331. *The Drama in England since 1660*

A study of the representative plays of the Restoration, of the eighteenth and nineteenth centuries, and of such modern playwrights as Jones, Pinero, Barker, St. John Hankin, Shaw, Coward, Galsworthy, Maugham, Dane, etc.

Prerequisite: English 12 or 12Q. Credit value: Three semester hours. Three class periods per week for one semester.

332. *The Development of the American Drama*

A study of the drama of the Colonial and Revolutionary Periods, followed by a consideration of the development of the drama to modern times. Attention will be given to such modern playwrights as the Mackayes, Thomas, Sheldon, Kaufman and Connelly, Crothers, Hughes, Davis, Anderson, Rice, Hellman, Howard, Behrman, and O'Neill.

Prerequisite: English 12 or 12Q. Credit value: Three semester hours. Three class periods per week for one semester.

334. *Contemporary Poetry*

The social and intellectual movements which arose in England and America between late Victorian times and the immediate past, and the expression of these movements in verse.

Prerequisite: English 12 or 12Q. Credit value: Three semester hours. Three class periods per week for one semester.

335. *Contemporary Prose*

Prose of the late Victorians, Georgians, and post-war writers in England; parallel work by American writers during the same period.

Prerequisite: English 12 or 12Q. Credit value: Three semester hours. Three class periods per week for one semester.

336. *American Literature*

A study of the chief American poets and prose writers between the Revolution and the Civil War.

Prerequisite: English 12 or 12Q. Credit value: Three semester hours. Three class periods per week for one semester.

337. *American Literature*

A study of the most important poets and prose writers in America from the Civil War to the present.

Prerequisite: English 12 or 12Q. Credit value: Three semester hours. Three class periods per week for one semester.

339. *Early Eighteenth-Century Prose and Poetry*

The background of the English Classical Period in the writers of the Restoration. The philosophic, religious, social, and literary ideas and ideals of the period. The work of Defoe, Addison and Steele, Swift, Pope, and their contemporaries.

Prerequisite: English 12 or 12Q. Credit value: Three semester hours. Three class periods per week for one semester.

340. *Later Eighteenth-Century Prose and Poetry*

The decline of Neo Classicism and the rise of Romanticism. Johnson, Boswell, Goldsmith, and Burke will be specially considered on the one hand; Thomson, Gray, Collins, Young, Chatterton, Cowper, Blake, and Burns on the other.

Prerequisite: English 12 or 12Q. Credit value: Three semester hours. Three class periods per week for one semester.

341. *The Short Story*

The literature and technique of the short story; its development from earliest times; typical specimens from the short-story literature of England, America, Russia, France, and other countries.

Prerequisite: English 12 or 12Q. Credit value: Three semester hours. Three class periods per week for one semester.

342. *Life and Literature of the Southwest*

A study of the social background of the Southwest and its reflection in literature.

Prerequisite: English 12 or 12Q. Credit value: Three semester hours. Three class periods per week for one semester.

355. *The American Novel*

A careful study of the representative American novels and novelists from 1850 to the present.

Prerequisite: English 12 or 12Q. Credit value: Three semester hours. Three class periods per week for one semester.

357. *The English Novel since 1900*

A survey of the English novel since 1900, concentrating on such figures as H. G. Wells, Arnold Bennett, John Galsworthy, Somerset Maugham, Aldous Huxley, J. B. Priestley, D. H. Lawrence, James Joyce, and Virginia Woolf.

Prerequisite: English 12 or 12Q. Credit value: Three semester hours. Three class periods per week for one semester.

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; development from the Anglo-Saxon to modern times.

Prerequisite: English 12 or 12Q. Credit value: Three semester hours. Three class periods per week for one semester.

359. *The English Language*

A continuation of English 358. English in recent times. Dialects; usage; influence of scientific developments, war, radio, etc. Foreign elements; word building; other topics leading to an understanding and appreciation of the student's native language.

Prerequisite: English 12 or 12Q. Credit value: Three semester hours. Three class periods per week for one semester.

98. *Thesis Course for the Master's Degree*

Confer with the chairman of the department immediately after registration.

Prerequisite: Twelve semester hours of advanced courses in English; graduate standing. Credit value: Six semester hours.

Public Speaking

301. *Basic Principles of Public Speaking*

Study and practice of the basic principles of speech applied to extemporaneous discourse. Emphasis on the development of poise and confidence; directness of approach; the conversational spirit; appropriate bodily action; and the use of the voice.

Credit value: Three semester hours. Three class periods per week for one semester.

302. *College Players*

The campus acting and producing organization. It presents one major production each term. Members are required either to act or to do technical work in connection with the major production, and in addition must appear in one student-directed play.

Prerequisite: Consent of the instructor. Credit value: Two semester hours (one hour per semester). Three hours per week for two semesters.

303. *Voice and Diction*

A course intended to develop clear articulation and enunciation, correct pronunciation, proper vowel placement, and control of the speaking voice. Special attention will be given to individual speech defects. Students wishing to overcome foreign accents will find the course especially valuable. It is strongly recommended for all Speech and Radio majors.

Credit value: Three semester hours. Three class periods per week for one semester.

305. *Basic Principles of Public Speaking*

A continuation of Public Speaking 301. The work includes the composition and delivery of original speeches with emphasis on finding subjects and materials, organization, outlining, composition, and practice in public presentation.

Prerequisite: Public Speaking 301 or 303. Credit value: Three semester hours. Three class periods per week for one semester.

310. *Argumentation and Debate*

A study of the principles and techniques of public discussion and debate. Training in phrasing and analyzing current questions; outlining and briefing cases for debate; selecting and using evidence; organizing refutation and rebuttal; together with a study of proof, applied logic, and the common fallacies. Practice in formal public debate.

Prerequisite: Six hours of Public Speaking. Credit value: Three semester hours. Three class periods per week for one semester.

311. *Argumentation and Debate*

A continuation of Public Speaking 310.

Prerequisite: Public Speaking 310. Credit value: Three semester hours. Three class periods per week for one semester.

312. *Play Production*

A general survey of the various fields in the theater: Directing, Technical Production, Acting, and Designing. The student will be given training and experience in directing plays and in constructing scenery. The course is intended to prepare him to produce plays in schools and communities.

Prerequisite: Sophomore standing or six semester hours of Public Speaking. Credit value: Three semester hours. Three class periods per week for one semester.

313. *Play Production*

A continuation of Public Speaking 312 with emphasis on acting, designing, and make-up. Characterization will be studied through work on individual roles and group rehearsing of scenes. Experience will be gained in designing costumes and scenery and in planning stage arrangement.

Prerequisite: Public Speaking 312. Credit value: Three semester hours. Three class periods per week for one semester.

314. *Acting*

A course designed as a laboratory in which a student may develop his ability to analyze a character and create a role. Scenes from classic drama, one-act plays, radio plays, and pantomime will be used in the development of acting technique.

Prerequisite: Sophomore standing. Credit value: Three semester hours. Three class periods per week for one semester.

319. *Business and Professional Speaking*

A practical course designed to help the student meet situations in the business and professional world. Stress will be laid on the principles of organization and presentation of material and on the technique of after-dinner speeches, sales talks, introductions, public discussions, political speeches, etc.

Prerequisite: Six hours of Public Speaking. Credit value: Three semester hours. Three class periods per week for one semester.

320. *Oral Interpretation*

A course designed to develop an adequate mental and emotional response to the meaning of literature. The attention given to the sound and meaning of words should lead to improvement in voice, pronunciation, and enunciation, and to greater general effectiveness in speech.

Prerequisite: Six hours of Public Speaking and Junior standing. Credit value: Three semester hours. Three class periods per week for one semester.

321. *Radio Drama*

A course in the technique of acting before the microphone and of directing radio drama.

Prerequisite: Six hours of Public Speaking and Junior standing. Credit value: Three semester hours. Three class periods per week for one semester.

323. *Techniques of Public Discussion*

A course intended to develop skill in leading and participating in discussion groups of all kinds. Attention is given to forums, panels, round tables, and symposiums, and to actual practice in the discussion of current problems.

Prerequisite: Six hours of Public Speaking and Junior Standing. Credit value: Three semester hours. Three class periods per week for one semester.

327. *The Development of the Early Theater*

Prerequisite: Six semester hours of Public Speaking and Junior standing. Credit value: Three semester hours. Three class periods per week for one semester.

330. *Advanced Acting and Directing*

Prerequisite: Public Speaking 312 and 313. Credit value: Three semester hours. Three class periods per week for one semester.

331. *Advanced Acting and Directing*

Prerequisite: Public Speaking 330. Credit value: Three semester hours. Three class periods per week for one semester.

356. *Disorders of Speech*

The cause, diagnosis, and therapy of the most common disorders of speech, including delayed and spastic speech, aphasia, and stuttering. Also consideration of articulatory disorders such as sound substitutions, lispings, and cleft-palate speech.

Prerequisite: Junior standing. Credit value: Three semester hours. Three class periods per week for one semester.

GEOLOGY AND GEOGRAPHY

PROFESSOR QUINN; ASSOCIATE PROFESSOR NELSON; INSTRUCTOR STRAIN

Geology

301f. Physical Geology

A critical study of the principles of physiography and dynamic and structural geology.

Prerequisite: None. Credit value: Three semester hours. Fee: \$2.00. Three lectures and two laboratory hours per week for one semester.

302s. Historical Geology

A critical study of the principles of stratigraphy, paleogeography and organic developments.

Prerequisite: Geology 301. Credit value: Three semester hours. Fee: \$2.00. Three lectures and two laboratory hours per week for one semester.

316f. Mineralogy

Crystallography and blowpipe analysis; a study of the crystallographic, chemical, and physical characteristics of minerals and mineral determination by blowpipe methods. Classification of Minerals.

Prerequisite: Chemistry 1 (Chemistry 801 for engineering students). Credit value: Three semester hours. Fee: \$2.00. One lecture and six laboratory hours per week for one semester.

317s and 217s. Mineralogy

Determinative mineralogy; a continuation of 316f. Largely devoted to the identification of minerals by physical characteristics.

Prerequisite: Geology 316. Credit value: Geology 317—Three semester hours; Geology 217—Two semester hours. Fee: \$2.00. 317s—One lecture and six laboratory hours per week for one semester. 217s—Six laboratory hours per week for one semester.

418f. Invertebrate Paleontology

A systematic study of the structure and classification of important invertebrates together with their development and geological significance.

Prerequisite: Geology 301 and 302. Credit value: Four semester hours. Fee: \$4.00. Two lectures and six laboratory hours per week for one semester.

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. Credit value: Four semester hours. The last two hours of this course count as advanced. Fee: \$4.00. Two lectures and six laboratory hours per week for one semester.

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 217 or 317; and Geology 302. Credit value: Four semester hours. Fee: \$4.00. Three lectures and three laboratory hours per week for one semester.

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; and Geology 302. Credit value: Three semester hours. Three lectures per week for one semester.

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. Credit value: Four semester hours. Fee: \$4.00. Two lectures and six laboratory hours per week for one semester.

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; bibliography research; applications of the principles of ore deposition to the search for ore; advanced consideration of the mineral deposits of Texas.

Prerequisite: Geology 427 in advance or concurrently and Geology 322. Credit value: Three semester hours. Fee: \$2.00. Two lectures, three laboratory hours per week for one semester.

463s. Geology of Petroleum, the Fuels, and the Non-Metals

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 occurrence of the non-metallic mineral deposits, stressing those occurring in Texas and the Southwest.

Prerequisite: Geology 419. Credit value: Four semester hours. Fee: \$4.00. Three lectures and three laboratory hours per week for one semester.

264f. Field Geology

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 for the successful completion of this course.

Prerequisite: Six semester hours of advanced courses in Geology. Credit value: Two semester hours. One lecture and one afternoon in the field per week for one semester.

074s. *Geology Field Trip*

A survey trip of about two weeks covering districts of geological interest. Prerequisite: Senior standing or permission of Head of Department of Geology. Credit value: None.

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. 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.

Prerequisite: None. Credit value: Three semester hours. Fee: \$2.00. Two lectures and three laboratory hours per week for one semester.

304s. *Elements of Geography*

A continuation of Geography 303.

Prerequisite: Geography 303. Credit value: Three semester hours. Fee: \$2.00. Two lectures and three laboratory hours per week for one semester.

HISTORY, GOVERNMENT AND SOCIOLOGY

PROFESSOR WALLER; ASSOCIATE PROFESSORS GREGORY, PORTER, STRICKLAND; INSTRUCTOR McNEELY

History

*301. *Principles of American Democracy*

Survey of the factors that have affected the growth of American democracy; European background, American environment, development of social and political institutions, conflict with imperial control and separation, constitution making—state and national, Jeffersonian republicanism and Jacksonian democracy, the Civil War.

Credit value: Three lecture hours. Three lectures per week for one semester.

*302. *The Contemporary Scene: United States and World Affairs*

Deals with the Industrial Revolution and its influence upon American industry; economic imperialism; American participation in world affairs; the First World War and after; economic depression; The New Deal; and the Second World War.

Credit value: Three semester hours. Three lectures per week for one semester.

*History 301 and 302 do not satisfy admission requirements for law and medicine at The University of Texas.

304. *History of England*

Survey of the social, economic, political and intellectual development of Britain and the British Empire to 1660.

Credit value: Three semester hours. Three lectures per week for one semester.

305. *History of England*

Survey of the social, economic, political and intellectual development of Britain and the British Empire, 1660 to the present.

Credit value: Three semester hours. Three lectures per week for one semester.

308. *History of Europe, 1500-1815*

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.

Credit value: Three semester hours. Three lectures per week for one semester.

309. *History of Europe, 1815-1914*

Brief survey of conditions at the time of Napoleon's downfall; 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 World War I.

Credit value: Three semester hours. Three lectures per week for one semester.

312. *The Ancient World*

A survey of the ancient civilizations—Babylonian, Chaldean, Assyrian, Persian, and Egyptian; more intense 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. Three lectures per week for one semester.

313. *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. Three lectures per week for one semester.

315. *History of the United States to 1865*

Prerequisite: Sophomore standing, or six semester hours of History. Not open to those who have had History 301. Credit value: Three semester hours. Three lectures per week for one semester.

316. *History of the United States since 1865*

Prerequisite: Sophomore standing, or six semester hours of History. Not open to those who have had History 302. Credit value: Three semester hours. Three lectures per week for one semester.

317. *A General Survey of the History of Texas*

Prerequisite: Sophomore standing or six semester hours in History. Credit value: Three semester hours. Three lectures per week for one semester.

320. *History of Texas: Colonization and the Republic, 1821-1845*

A critical study of the social, economic, and political factors involved in the Anglo-American settlement of Texas; the establishment of the Republic and its history until annexation to the United States.

Prerequisite: Twelve semester hours of History. Credit value: Three semester hours. Three lectures per week for one semester.

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. Three lectures per week for one semester.

324. *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. Three lectures per week for one semester.

325. *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. Three lectures per week for one semester.

326. *History of the United States, 1787-1829*

Confederation and Constitution; formulation of foreign policy; 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. Three lectures per week for one semester.

330. *History of the Far East*

Modernization of the nations of the Far East with particular attention given to China and Japan. The social, political, economic, and intellectual aspects of this transformation are considered in the light of the impact of Western influences.

Prerequisite: Twelve semester hours in History. Credit value: Three semester hours. Three lectures per week for one semester.

331. *Russian History*

Prerequisite: Twelve semester hours of History. Credit value: Three semester hours. Three lectures per week for one semester.

335. *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 states' rights; slavery and cotton capitalism.

Prerequisite: Twelve semester hours in History. Credit value: Three semester hours. Three lectures per week for one semester.

336. *History of the United States, 1850-1865*

Slavery controversy; manifest destiny; party history, breakdown of the Whigs, rise of the Republican Party, new leaders; Civil War, its causes, economic and social factors, military operations, results.

Prerequisite: Twelve semester hours in History. Credit value: Three semester hours. Three lectures per week for one semester.

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, or six semester hours of History and Junior standing. Credit value: Three semester hours. Three lectures per week for one semester.

348. *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, or six semester hours of History and Junior standing. Credit value: Three semester hours. Three lectures per week for one semester.

351. *The French Revolution and Napoleon*

Prerequisite: Twelve semester hours in History, or six semester hours of History and Junior standing. Credit value: Three semester hours. Three lectures per week for one semester.

353. *A Survey of Political and Social Britain from 1815-1895*

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. Three lectures per week for one semester.

354. *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. Three lectures per week for one semester.

355. *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. Three lectures per week for one semester.

356. *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. Three lectures per week for one semester.

359. *The Anglo-American Southwest*

American expansion into Texas and the Far Southwest; filibustering expedition into Texas; Pike and early exploratory expeditions; the Austins and American colonization of Texas; Santa Fe trade; Texas Revolution and Independence; Texas Republic, English and American Rivalry in Texas and California; Mexican War and acquisition of California.

Prerequisite: Twelve semester hours in History. Credit value: Three semester hours. Three lectures per week for one semester.

98. *Thesis Course for the Master's Degree*

Confer with the departmental head immediately after registration.

Prerequisite: Twelve semester hours of advanced courses in history; graduate standing. Credit value: Six semester hours.

Government

310 and 10. *American Government*

The government of the United States—national, state, and local—with special emphasis upon the Constitutions of the United States and of Texas. Fulfills the legislative requirement of a course on the Constitutions of the United States and of Texas.

Prerequisite: Sophomore standing. Credit value: For 310 or 10a, three semester hours; for 10, six semester hours. Three lectures per week for one semester for 310; three lectures per week for two semesters for 10.

323. *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 10. Credit value: Three semester hours. Three lectures per week for one semester.

324. *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 10. Credit value: Three semester hours. Three lectures per week for one semester.

330. *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 10. Credit value: Three semester hours. Three lectures per week for one semester.

331. *International Organization and Administration*

The development of the machinery and procedure of international government for the peaceful settlement of international disputes.

Prerequisite: Government 10. Credit value: Three semester hours. Three lectures per week for one semester.

334. *The American National Government and Administration*

The making of the national government; the principles of the Federal system; Citizenship and Constitutional Rights; the organization of Congress; the National Executive and National Court System.

Prerequisite: Government 10. Credit value: Three semester hours. Three lectures per week for one semester.

335. *American National Government and Administration*

A general view of the powers of Congress; National Executive and National Court System; the organization, personnel work of the Civil Service and of the Budget Bureau.

Prerequisite: Government 10. Credit value: Three semester hours. Three lectures per week for one semester.

343. *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 10. Credit value: Three semester hours. Three lectures per week for one semester.

344. *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 10. Credit value: Three semester hours. Three lectures per week for one semester.

Sociology

310. *Introduction to Sociology*

Study of the individual in group action in which the student has a part. Includes broad consideration of heredity and environment factors, and a study of the major social institutions and processes. Different schools of sociological thought from early times to the present are reviewed, with emphasis on current interpretations and problems.

Prerequisite: Sophomore standing. Credit value: Three semester hours. Three lectures per week for one semester.

311. *Social Problems*

Physical and mental defectiveness considered from the sociological viewpoint; defects in social organization; poverty and dependency. Social controls applied to social problems.

Prerequisite: Sophomore standing. Credit value: Three semester hours. Three lectures per week for one semester.

320. *Fields of Social Work*

A survey of the various fields of social work now operating, both public 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. Three lectures per week for one semester.

333. *Juvenile Delinquency*

A study of the causative factors in juvenile delinquency. Attention is given to the methods of social analysis, the clinical approach, the interrelation of physical, mental and social factors in delinquency. Emphasis upon the problem of delinquency in wartime.

Prerequisite: Sociology 310 and 311. Credit value: Three semester hours. Three lectures per week for one semester.

335. *Social Aspects of Post-War Planning*

A survey of the social problems that will probably grow out of the war: demobilization of men; reconversion of industry to a peacetime basis; problems resulting from wartime mobility, shifts in population, dislocation of families; vocational rehabilitation; a study of current social security plans such as the Beveridge Plan and the Wagner-Murray Bill.

Prerequisite: Sociology 310 and 311. Credit value: Three semester hours. Three lectures per week for one semester.

336. *Comparative Cultures*

A study of the folkways, changing mores and the growth of democratic ideas in the United States and the Republic of Mexico. Special emphasis upon the fusion of cultures along the border.

Prerequisite: Sociology 310 and 311. Credit value: Three semester hours. Three lectures per week for one semester.

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 of modern communities.

Prerequisite: Sociology 310 and 311. Credit value: Three semester hours. Three lectures per week for one semester.

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; and 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. Three lectures per week for one semester.

348. *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. Three lectures per week for one semester.

349. *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. Three lectures per week for one semester.

350. *Child Welfare Problems*

The development of the rights of the child in relation to parental rights, as evidenced in the child labor laws, juvenile court, adoption, mother's aid legislation, the changing status of the illegitimate child, and public organization for more effective administration of other laws relating to child dependency, delinquency and neglect.

Prerequisite: Sociology 310 and 311. Credit value: Three semester hours. Three lectures per week for one semester.

JOURNALISM AND RADIO

ASSOCIATE PROFESSOR WILLIAMS; INSTRUCTOR HICKS, SCARRITT, SNELSON;
RADIO CONSULTANTS KARL O. WYLER, VIRGIL HICKS

Journalism

301j. *Introduction to Fields of Journalism*

Orientation course, giving an introduction in newspaper practice and the essentials of the field of journalism to acquaint the student who may be planning to major in that field with the problems ahead.

Credit value: Three semester hours. Three lectures per week for one semester.

302s. *Introduction to Fields of Journalism*

Continuation of Journalism 301.

Prerequisite: Journalism 301 or by permission of the Chairman of the Department. Credit value: Three semester hours. Three lectures per week for one semester.

307j. *Elementary Photography*

Learning of the normal order of the photographic process. Discussion of lenses and cameras along with the actual photographic process: exposure, development, fixing and contact printing. Faults and corrective processes and certain special types of work are treated.

Credit value: Three semester hours. Fee: \$2.00. Two lectures and four laboratory hours per week for one semester.

308s. *Fields of Photography*

A continuation of Elementary Photography with special emphasis on commercial photography. A survey of the various fields of photography with a practical working knowledge taught of high-speed cameras and their most effective uses.

Prerequisite: Journalism 307 or permission of the Chairman of the Department. Credit value: Three semester hours. Fee: \$2.00. Two lectures and four laboratory hours per week for one semester.

311f. 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 the newspaper staffs and the news gathering associations. Required of all students majoring in journalism. (Formerly, Journalism 12a.)

Prerequisite: Sophomore standing including English 1. Credit value: Three semester hours. Two lectures and four practice hours per week for one semester.

312s. News and Copy Reading

Theory of writing newspaper copy and writing headlines. Special instruction by leading newspaper men and women. Regular assignments on college publications. Required of all students majoring in journalism. (Formerly, Journalism 12b.)

Prerequisite: Sophomore standing including English 1. Credit value: Three semester hours. Two lectures and four practice hours per week for one semester.

313f. History and Principles of Journalism

Includes a study of the growth of the modern American newspaper, with emphasis on great figures in American journalism and a study of the principles of the newspaper and the magazine of today.

Prerequisite: Sophomore standing including English 1. Credit value: Three semester hours. Three lectures per week for one semester.

315f. 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 copy.

Prerequisite: Sophomore standing. Credit value: Three semester hours. Two lectures and four practice hours per week for one semester.

316f. Comparative Journalism

Study of foreign and American publications.

Prerequisite: English 1 and Sophomore standing. Credit value: Three semester hours. Three lectures per week for one semester.

316K. Current Events

A study of current events in the daily newspaper and interpretation of these current events in regard to the social welfare, future, and progress of the world.

Prerequisite: Sophomore standing. Credit value: Three semester hours. Three lectures per week for one semester.

322s. *The Special Article*

Methods of gathering material for newspapers and magazine feature stories through interviews, research, and observation; study of feature story form and style; discussion of markets for literary material; practice in writing feature stories.

Prerequisite: Journalism 311 and 312 or English 12. Credit value: Three semester hours. Three lectures per week for one semester.

324f. *News Editing*

Study of newspaper style books; instruction in headline writing; study of newspaper makeup; practice in reading newspaper copy for errors in fact, English, and style; also practice in writing headlines and rewriting news stories.

Prerequisite: Journalism 311 and 312 or Journalism 313. Credit value: Three semester hours. Two lectures and four practice hours per week for one semester.

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 internship on Texas newspapers.

Prerequisite: Journalism 311 and 312. Credit value: Three semester hours. Three lectures per week for one semester.

326s. *Advertising, Copywriting and Special Layouts*

Study of technique of copywriting and layout, direct mail advertising, circulars and department store layouts. Study of marketing and media.

Prerequisite: Journalism 315. Credit value: Three semester hours. Two lectures and four practice hours per week for one semester.

329s. *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.

Prerequisite: Journalism 311 and 312. Credit value: Three semester hours. Two lectures and four practice hours per week for one semester.

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.

Prerequisite: Journalism 311 and 312. Credit value: Three semester hours. Three lectures per week for one semester.

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 311 and 312. Credit value: Three semester hours. Fee: \$2.00. Two lectures and four laboratory hours per week for one semester.

Radio

The radio courses offered are based on practicability and completeness of training. The objectives of the program are to provide training and practical experience in all fundamentals of Radio Broadcasting and to determine which phase of radio broadcasting is best suited to the ability and talent of each student. Facilities include modern, well equipped campus studios and control room, with a direct wire to Radio Station KTSM for the broadcasting of campus programs. The Department also owns and maintains its own campus radio station WCTCM, which operates on a frequency of 670 kc. and a broadcasting schedule of six hours daily.

Journalism 301 and Radio 302 are required of all radio majors.

302s. Fields of Radio Broadcasting

A continuation of Journalism 301 with emphasis on the opportunities in the various fields of radio broadcasting. Application of theories and materials learned will be put in practice in the class laboratory.

Prerequisite: Journalism 301 or Radio 301 or by permission of the Chairman of the Department. Credit value: Three semester hours. Three lectures per week for one semester.

314f. Introduction to Broadcasting

A preliminary survey of broadcasting as a profession, with a general study of radio methods and broadcasting techniques.

Prerequisite: Radio 302, or by consent of the Chairman of the Department. Credit value: Three semester hours. Two lectures and four laboratory hours per week for one semester. Fee: \$2.00.

315s. Basic Studio Practices

Principles of announcing, basic microphone techniques. Practice announcing, with special attention to diction and interpretation. The development of an effective, friendly radio personality.

Prerequisite: Radio 314, or by consent of the Chairman of the Department. Credit value: Three semester hours. Two lectures and one four-hour laboratory per week for one semester. Fee: \$2.00.

320f. *Advanced Announcing and Radio Acting*

Development of skill in radio characterization and interpretation through studio production of all types of radio material, under actual broadcasting conditions. Introduction to Radio Writing.

Prerequisite: Six hours of radio courses and junior standing. Credit value: Three semester hours. Two lectures and one four-hour laboratory per week for one semester. Fee: \$2.00.

321s. *Radio Production and Direction*

A practical course in script analysis, listener psychology, production procedures, sound effects, music, studio arrangements and casting. Actual program production using student producers and directors. Terminology of commercial broadcasting. Control room practices.

Prerequisite: Six hours of radio courses and junior standing. Credit value: Three semester hours. Two lectures and one four-hour laboratory per week for one semester. Fee: \$2.00.

330f. *Program Building and Radio Writing*

A general study of radio station programming policies. Practical problems of assembling and writing various types of radio programs including interviews, forums, variety shows, educational programs, etc. Advanced production techniques.

Prerequisite: Six hours of radio courses and junior standing. Credit value: Three semester hours. Two lectures and one four-hour laboratory per week for one semester. Fee: \$2.00.

331s. *Advanced Radio Production*

A practical workshop course for advanced students with previous experience in radio acting and producing. Each student will be assigned a script to produce under close supervision of the instructor. The student producer-director will be trained to evaluate, define and interpret the script, to analyze the characters, to audition and select the cast from among the members of the class, and to carry the program through rehearsals to an actual production.

Prerequisite: Radio 330 and six additional hours of radio courses. Credit value: Three semester hours. Two lectures and one four-hour laboratory per week for one semester. Fee: \$2.00.

MATHEMATICS AND PHYSICS

PROFESSOR KNAPP; ASSOCIATE PROFESSORS DURKEE, BARNES; INSTRUCTORS RESLEY, CALDWELL, McMAHAN, SCHUMAKER, MILLER, THREADCILL, BRUCE

Mathematics

As indicated in item six under degree requirements, six semester hours of Mathematics are required for the degree of Bachelor 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 the second semester 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.

Prerequisite: One year of high-school geometry and one and one-half years of high-school algebra. Credit value: Eight semester hours. Four recitations per week for two semesters.

304js. *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. Three recitations per week for one semester.

305fs. *Algebra*

A review of secondary-school and intermediate algebra for engineering students whose background in this subject is deficient.

Credit value: Three semester hours. Three recitations per week for one semester.

307s. *Mathematics of Investment*

An elementary course in the theory and application of the mathematics of finance. Topics covered include logarithms, progressions, simple and compound interest, annuities, amortization, perpetuities. Credit earned may be applied toward the mathematics requirement or elective hours for the B.A. degree.

Prerequisite: Mathematics 304 or 305. Credit value: Three semester hours. Three recitations per week for one semester.

208fs. *Solid Geometry*

Required of candidates for engineering degrees who do not present solid geometry for entrance. This course or high-school solid geometry is required of all students beginning calculus. Counts toward academic degrees but not toward engineering degrees.

Credit value: Two semester hours. Two recitations per week for one semester.

309j. *Mathematical Analysis*

A continuation of Mathematics 304 and designed for students who do not plan to take other courses in mathematics.

Prerequisite: Mathematics 304 or 305. Credit value: Three semester hours. Three recitations per week for one semester.

13. *Calculus*

In this course differential calculus and integral calculus are carried on together. In differential calculus, special attention is given to the derivation of formulas and to the application of derivatives to the solution of problems in maxima, minima, rates, velocity, acceleration, and geometrical applications. The work in integral calculus drills the student in the integration of forms occurring in mechanics and physics; in evaluating areas and volumes, in finding centers of gravity, and in the derivation and application of the fundamental formulas of hydrostatics.

Prerequisite: Mathematics 208 unless solid geometry is presented for entrance, and Mathematics 803. Credit value: Six semester hours. Three recitations per week for two semesters.

325j. *Calculus*

The topics of Mathematics 13 are extended to include the differentiation and integration of a wider class of functions and the applications of these processes to the solution of a wider range of problems: moments of inertia, series, approximations of definite integrals, partial differentiation, and multiple integrals.

Prerequisite: Mathematics 13. Credit value: Three semester hours. Three recitations per week for one semester.

326s. *Differential Equations*

A study of the common types of ordinary and partial differential equations of geometry, mathematics, mechanics, and electricity.

Prerequisite: Mathematics 13. Credit value: Three semester hours. Three lectures per week for one semester.

333f. *Theory of Equations*

Theory of polynomials, cubic and quartic equations, approximate methods, determinants, symmetric functions, and other topics.

Prerequisite: Mathematics 13. Credit value: Three semester hours. Three lectures per week for one semester.

337s. *Modern College Geometry*

A course in modern plane geometry involving an extension of some of the material of elementary geometry, together with an introduction to projective geometry. Properties of the triangle, properties of the circle, similitude, inversion, cross ratio, and principle of duality.

Prerequisite: Mathematics 13. Credit value: Three semester hours. Three lectures per week for one semester.

4l. Analytical Mechanics

Equilibrium and motion of a particle and a rigid body in two and three dimensions. May be counted as six advanced hours in physics.

Prerequisite: Mathematics 13 and six credit hours in physics. Credit value: Six semester hours. Three lectures per week for two semesters.

Physics**1. General Physics**

Credit value: Six semester hours. Fee: \$2.00 per semester. Three lectures and two laboratory hours per week for two semesters.

801. General Physics

Designed primarily for pre-medical students. Mechanics, heat, electricity, magnetism, sound, and light. Physics 801 and 1 may not both be counted for credit by the same student.

Credit value: Eight semester hours. Fee: \$4.00 per semester. Four lectures and two laboratory hours per week for two semesters.

303f. Introduction to Radio

Theory and laboratory practice in those fundamentals of electricity which are needed as a foundation for the study of radio circuits and electron tube applications.

Credit value: Three semester hours. Fee: \$2.00. Two lectures and one three-hour laboratory period per week for one semester.

304s. Fundamentals of Radio

Elementary study of electron tube applications and radio circuits.

Prerequisite: Physics 303 or Physics 1. Credit value: Three semester hours. Fee: \$2.00. Two lectures and one three-hour laboratory period per week for one semester.

12. Second-Year Physics

First semester: electricity and magnetism, light, and sound. Second semester: mechanics and heat.

Prerequisite: Physics 1, and Mathematics 13 concurrently. Credit value: Six semester hours. Fee: \$2.00 per semester. Three lectures and three laboratory hours per week for two semesters.

812. Physics

Includes a thorough grounding in kinematics, dynamics, statics, kinetics, and the elements of precision of measurements, properties of matter, thermometry, expansion, calorimetry, heat and work, change of state, vaporization, radiation, magnetism, the magnetic field, magnetic induction, electrostatics, electrodynamics, radioactivity.

Prerequisite: Mathematics 13 concurrently. Credit value: Eight semester hours. Fee: \$4.00 per semester. Three lectures and three laboratory hours per week for two semesters.

222s. *Sound and Light*

Prerequisite: Physics 812. Credit value: Two semester hours. Fee: \$2.00. One lecture and three laboratory hours per week for one semester.

34. *Electricity and Magnetism*

Prerequisite: Physics 12 or 812 and Mathematics 13. Credit value: Six semester hours. Fee: \$2.00 per semester. Three lectures and three laboratory hours per week for two semesters.

38. *Theory and Applications of Electron Tubes*

Prerequisite: Mathematics 13 and twelve semester hours of physics. Credit value: Six semester hours. Fee: \$2.00 per semester. Three lectures and three laboratory hours per week for two semesters.

339f. *Heat*

Advanced topics.

Prerequisite: Mathematics 13 and six semester hours of physics. Credit value: Three semester hours. Three recitations per week for one semester.

340s. *Light*

Advanced topics.

Prerequisite: Mathematics 13 and six semester hours of physics. Credit value: Three semester hours. Three lectures per week for one semester.

41. *Analytical Mechanics*

Prerequisite: Mathematics 13 and six semester hours of physics. Credit value: Six semester hours. Three lectures per week for two semesters.

MINING AND METALLURGY

PROFESSORS GRAHAM AND THOMAS; ASSISTANT PROFESSOR JENNESS;
INSTRUCTOR ROWLAND

Mining

521f. *Mining Methods*

A comprehensive study of mining methods, including prospecting, development, exploitation, earth and rock excavation, explosives, tunneling, shaft sinking, timbering, boring, underground transport, and hoisting.

Prerequisite: Geology 316, Drawing 302, and Physics 812. Credit value: Five semester hours. Five lectures per week for one semester.

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 521. Credit value: Two semester hours. Two lectures per week for one semester.

231s. Mining Hygiene

Lectures and recitations. Prevention of communicable diseases, personal hygiene, public health, food, air, water, soil, ventilation and heating, sewage 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. Credit value: Two semester hours. Two lectures per week for one semester.

260f. Mine Plant

A detailed study of underground transport, hoisting plant, skips and cages, compressed air plant, rock drills, mechanical ventilation, and drainage. Emphasis is placed on calculation of problems in connection with choice of equipment.

Prerequisite: Senior standing. Credit value: Two semester hours. Two lectures per week for one semester.

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. Credit value: Two semester hours. Laboratory fee: \$2.00. One lecture and three laboratory hours per week for one semester.

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. Credit value: Two semester hours. Fee: \$2.00. Six laboratory hours per week for one semester.

267f. 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 requirement for the Bachelor of Science degree by the end of the following Fall semester.

Prerequisite: Completion of requirements for the Bachelor of Science degree by the end of the following Fall semester. Credit value: Two semester hours. Two lectures per week for one semester.

269s. Management

A continuation of the work given in Mining 267.

Prerequisite: Mining 267. Credit value: Two semester hours. Two lectures per week for one semester.

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 1941 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.

Prerequisite: Completion of the requirements for the Bachelor of Science degree by the end of the following Fall semester. Credit value: None; 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, Geology 316 and 217. Credit value: Three semester hours. Three lectures per week for one semester.

423f. Ore Dressing and Milling

A study 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: Geology 217 and Physics 812. Credit value: Four semester hours. Fee: \$4.00. Three lectures and three laboratory hours per week for one semester.

324s. Assaying

The determination of gold, silver, and lead by fire methods in minerals, ores, and products of mills and smelters.

Prerequisite: Chemistry 323. Credit value: Three semester hours. Fee: \$2.00. One lecture and six laboratory hours per week for one semester.

325f. Non-metallics

A survey course of the non-metallic and ceramic industries, not including coal, oil or sulphur. Emphasis is placed upon the present economic utilization of, and possible future demands for, those minerals which are classed as non-metallic.

Prerequisite: Metallurgy 423 must have been completed, or if not, must be taken concurrently. Credit value: Three semester hours. Three lecture hours per week for one semester.

252j. 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. Credit value: Two semester hours. Two lectures per week for one semester.

253s. Electric Furnaces

A foundation course in electric smelting and the commercial applications of the electric furnace.

Offered subject to demand. Credit value: Two semester hours. Two lectures per week for one semester.

361f. Iron, Copper, and Lead

A study of the metallurgy of the three common metals. One-third of the course will be devoted to calculations pertaining to the above subjects.

Prerequisite: Metallurgy 321. Credit value: Three semester hours. Three lectures per week for one semester.

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. Credit value: Two semester hours. Two lectures per week for one semester.

362j. 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. Credit value: Three semester hours. Fee: \$2.00. Two lectures and three laboratory hours per week for one semester.

263f. 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. Credit value: Two semester hours. Two lectures per week for one semester.

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. Credit value: Three semester hours. Fee: \$2.00. Nine laboratory hours per week for one semester.

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. Credit value: Two semester hours. Fee: \$2.00. Six laboratory hours per week for one semester.

265f. Ore Dressing and Milling

Ore testing and mill design.

Prerequisite: Metallurgy 263 in advance or concurrently. Credit value: Two semester hours. Fee: \$2.00. Six laboratory hours per week for one semester.

473s. Metallography

An elementary course in the metallography of various metals and products and the heat treatment of iron and steel.

Prerequisite: Metallurgy 261. Credit value: Four semester hours. Fee: \$4.00. Three lectures and three laboratory hours per week for one semester.

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. Credit value: None, but required for graduation.

MODERN LANGUAGES

PROFESSORS RUFF, BACHMANN; INSTRUCTORS SPERRY, WEBB AND CASTRO;
ASSISTANTS TAPPAN, FERNANDEZ AND PARTEARROYO

Students entering with two units of high-school language will enter Course 1a in the same language. With three units they will enter 1b, and with four units they may enter 12a if their preparation seems adequate to the department; otherwise they will be placed in 1b.

Students entering with one unit of high-school language and such as show exceptional proficiency may take a placement test to determine which course they should enter to their best advantage.

A student with no high-school language will register for Course 801, completion of which will enable him to enter Course 12 in the second year.

Special English

A. Elementary English

A preliminary course for students to whom English is a second language. Intended to serve as preparation for English 1a.

Dictation, pronunciation, oral summaries, approved styles of note-taking, composition. This course may not be used to satisfy foreign language requirements.

Credit value: Six elective hours. Three recitation hours per week for two semesters.

French, German, and Spanish

801. Fundamentals of Reading, Writing and Speaking

Oral drill, dictation, grammar, reading of elementary and intermediate texts, conversation, written exercises.

Credit value: Eight semester hours. Three recitation and two workshop hours per week for two semesters.

1. Reading, Composition and Grammar

Reading of intermediate texts; written exercises; dictation; grammar review.

Prerequisite: Course A or two admission units in the language. Credit value: Six semester hours. Three recitation hours per week for two semesters.

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 or 801. Credit value: Six semester hours. Three recitations per week for two semesters.

French

335f. Modern Novel: Early Period

Reading of such eighteenth century novelists as Lesage, l'Abbé Prévost and Bernardin de Saint-Pierre and of the nineteenth century novelists up to 1850.

Prerequisite: French 12. Credit value: Three semester hours. Three lecture hours per week for one semester.

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. Three lecture hours per week for one semester.

337s. Modern Novel: Later Period

A study primarily of the naturalistic novel from Flaubert to Maupassant.

Prerequisite: French 12. Credit value: Three semester hours. Three lecture hours per week for one semester.

340s. Modern Drama: Later Period

Representative plays from Dumas fils to Claudel, including the outstanding works of Augier, Becque, Brieux, Rostand, Bernstein, Lenormand, etc.

Prerequisite: French 12. Credit value: Three semester hours. Three lecture hours per week for one semester.

Spanish**13q. Advanced Conversation: Social and Business Spanish**

Training in everyday Spanish social and business usage. This course is not intended for language majors or minors.

Prerequisite: Spanish 1 or 801 or 1q. Credit value: Six semester hours. Three recitation hours per week for two semesters.

324s. Literary History of Mexico

A survey of the principal movements and writers in Mexican literature. Emphasis on the modern novel. Reading of selected works in class. Outside assignments and reports.

Prerequisite: Spanish 12. Credit value: Three semester hours. Three lecture hours per week for one semester.

328f. Golden Age Drama

A study of the leading dramatists, such as Lope de Vega, Tirso de Molina, Calderon de la Barca, Ruiz de Alarcón, Moreto and others. Readings of selected masterpieces; outside reading reports.

Prerequisite: Spanish 12. Credit value: Three semester hours. Three lecture hours per week for one semester.

332s. Classical Epoch Prose

A study of the Spanish picaresque, chivalresque and pastoral novels and shorter forms. Some consideration of mystic and satirical masterpieces.

Prerequisite: Spanish 12. Credit value: Three semester hours. Three lecture hours per week for one semester.

334f. Early Epics and Ballads

A study of the field of the Spanish epics and ballads. Special emphasis on the *Poema del Cid*. Reading of special selections; outside readings and reports.

Prerequisite: Spanish 12. Credit value: Three semester hours. Three lecture hours per week for one semester.

335f. Modern Novel: Early Period

A study of the trends in the development of the Spanish novel from the latter part of the eighteenth century to the latter part of the nineteenth century. Readings from such authors as Padre Isla, Fernán Caballero, Alarcón, Juan Valera, Pereda, Pérez Galdós, Pardo Bazán, etc.; outside reading reports.

Prerequisite: Spanish 12. Credit value: Three semester hours. Three lecture hours per week for one semester.

336f. *Modern Drama: Early Period*

A study of the trends in the development of the Spanish drama from the latter part of the eighteenth century to the latter part of the nineteenth century. Readings from the dramatists 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. Three lecture hours per week for one semester.

337s. *Modern Novel: Later Period*

A study of the Spanish novel from the latter part of the nineteenth century to the present. Selected readings from Palacio Valdés, Blasco Ibáñez, Baroja, Ricardo León, Pérez de Ayala, Concha Espina, etc.; outside reading reports.

Prerequisite: Spanish 12. Credit value: Three semester hours. Three lecture hours per week for one semester.

339f. *The Cuento and Short Story*

A study of the 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 reading reports.

Prerequisite: Spanish 12. Credit value: Three semester hours. Three lecture hours per week for one semester.

340s. *Modern Drama: Later Period*

A study of the Spanish drama from the latter part of the nineteenth century to the present. Readings from the works of representative dramatists, including Echegaray, Pérez Galdós, Benavente, los Quinteros, etc.; outside reading reports.

Prerequisite: Spanish 12. Credit value: Three semester hours. Three lecture hours per week for one semester.

357f. *Advanced Composition and Grammar Review*

Examination of the best modern Spanish business, epistolary, journalistic and polemic styles. Original composition on topics of current interest.

Prerequisite: Spanish 12 or 13q. Credit value: Three semester hours. Three lecture hours per week for one semester.

358. *Contemporary Literature*

A consideration of the movements in contemporary Spanish literature, with study of representative authors. Outside reading reports.

Prerequisite: Spanish 12. Credit value: Three semester hours. Three lecture hours per week for one semester.

360s. *The Regional and Historical Novel in South America*

A study of the famous regional and historical novels of South America, exclusive of Brazil. At least one representative author of each country or important region is read. Special attention to major regional language differences. Outside reading reports.

Prerequisite: Spanish 12. Credit value: Three semester hours. Three lecture hours per week for one semester.

361s. *Don Quixote*

An examination of the literary value and influence of the Quixote. Traditional and modern interpretations. The life and times of Cervantes. Collateral readings and reports.

Prerequisite: Spanish 12. Credit value: Three semester hours. Three lecture hours per week for one semester.

MUSIC

ASSOCIATE PROFESSOR HEMMLE; INSTRUCTORS BOYER, SENNING

The Department of Music has as its chief aim not only to give ample opportunity for musical expression to the students on the campus, but also to give a full, rounded and practical course of training to the students planning to enter the field of instrumental or choral direction.

Any student having completed the course of study as outlined will have fulfilled all the requirements of the State Board of Education for full-time teaching in the Public Schools of Texas, either primary or secondary.

Theory**I. Theory**

Properties of sound; the keyboard; voices: their qualities and ranges; time and rhythm; triad study; key feeling and tonality; clefs, scales and cadences; sight-singing; non-harmonic devices; simple modulation; harmonic and melodic dictation; keyboard practice; instruments of the orchestra.

Open to all students. Credit value: Six semester hours. Three lectures and two work-shop hours per week for two semesters.

II. Theory

Melodic and harmonic dictation; harmonic analysis and simple forms; beginning part writing; augmented and diminished triads; chromatic modulation; the four-tone chords; figured bass; altered chords; simple chromatic and contrapuntal dictation.

Prerequisite: Theory I. Credit value: Six semester hours. Three lectures and two work-shop hours per week for two semesters.

2I. Theory

Counterpoint—elementary composition.

Prerequisite: Theory II. Credit value: Six semester hours. Three lectures and two work-shop hours per week for two semesters.

Literature**301k. Introduction to Musical Literature**

A non-technical course for all students. Through directed listening, aiming to increase the enjoyment and appreciation of potential music lovers.

Three class periods per week for one semester. Credit value: Three semester hours.

301l. Trends in Musical Literature

A survey, through directed listening, of the trends found in the great musical literature of the world, stressing appreciative rather than technical aspects. Not limited to music majors.

Three class periods per week for one semester. Credit value: Three semester hours.

331. Music Literature:

A chronological survey of the composers and their works, through directed listening, beginning with the Pre-Bach Period and continuing through the Romantic Period. Detailed study of form and analysis of representative works.

Prerequisite: Junior standing. Three class periods per week for one semester. Credit value: Three semester hours.

334. Music Literature

A chronological survey of the composers and their works, through directed listening, beginning with the later Romanticists and continuing through the important composers of today. Detailed study of form and analysis of representative works.

Prerequisite: Junior standing. Three class periods per week for one semester. Credit value: Three semester hours.

Music Methods**310. Elementary Music Education**

Consideration of music in relation to the child voice and song repertory; rhythms; dramatic play; discriminating listening. Discussion and presentation of curricular plans and materials. Recommended for Education Majors (Elementary School Teachers).

Prerequisite: Sophomore standing. Three class periods per week for one semester. Credit value: Three semester hours.

352s. Conducting

Designed for the student who has had no previous conducting experience. Posture technique of the baton; fundamental principles in obtaining tone balance, color shading, interpretation, score reading, etc. Program building and practical application of the conducting of smaller concert numbers.

Prerequisite: Education 317 and four hours of music. Three class periods per week for one semester. Credit value: Three semester hours.

376. Teaching and Supervision of Music in the Elementary School

The study of procedures in the teaching of music in the first six grades. The child voice, its development and classification. Introduction of notation, all kinds of song materials, rhythm bands, appreciation methods and creative music for children.

Prerequisite: Education 318 and four hours of music. Three class periods per week for one semester. Credit value: Three semester hours.

376k. Teaching and Supervision of Music in the Junior and Senior High School

The study of procedures in the teaching of music in the upper level grades and in high school. General treatment of choral and instrumental music; music appreciation, theory and integration. Public school music as it is related to the life and needs of a community is fully studied.

Prerequisite: Education 317 and six hours of music. Three class periods per week for one semester. Credit value: Three semester hours.

377. Methods and Administration of Band Supervision

Band organization, teaching methods, promotion of program in the community, instrumentation plans, equipping and housing of the band.

Prerequisite: Education 317 and nine hours of music. Three class periods per week for one semester. Credit value: Three semester hours.

Applied Music

Music Theory Majors are required to minor in Applied Music.

1. Students must pass satisfactorily a placement test to determine level of study in the minor field.
2. The minor may be chosen to cover several areas of study: eight hours of piano being required, the additional hours may be divided among the other fields of study. In this case the student is required to study the primary material for the instruments which carries four semester hours credit for one year's study.
3. The minor may be chosen to cover only one area of study: piano, voice organ, violin, orchestral and band instruments. In this case the student must study secondary material which carries six semester hours credit for one year's study.

Piano

Primary

406. Pre-Czerny, Quail; Czerny-Germer, Vol. 1, part 1, or studies similar in same grade; Burgmuller, Op. 100; Bach-Carroll, Book 1, or Bach pieces of similar grades: Sonatinas, modern compositions of easy difficulty.

One thirty-minute lesson and six practice hours per week for two semesters. Course fee: \$10.00 per semester. Additional fee required for private instruction. Credit value: Four semester hours.

416. Czerny-Germer, Vol. 1, part 2, or studies of same grade; Heller, "Studies," Op. 47; Bach-Carroll, Book II, or other Bach pieces of this grade; Sonatinas by Clementi and Kuhlau; Romantic and Modern compositions. (Schumann Album for the Young.)

One thirty-minute lesson and six practice hours per week for two semesters. Course fee: \$10.00 per semester. Additional fee required for private instruction. Credit value: Four semester hours.

426. Czerny, Op. 299 "School of Velocity"; or similar grade of studies; Heller Studies, Op. 47 (more difficult); Bach, Two-part Inventions; Sonatinas by Haydn, Mozart and Beethoven. Three Bonn; Romantic and Modern compositions.

One thirty-minute lesson and six practice hours per week for two semesters. Course fee: \$10.00 per semester. Additional fee required for private instruction. Credit value: Four semester hours.

Secondary

9. Bach, Two and Three-part Inventions; Sonatas, Haydn, Mozart and Beethoven, Op. 49; Romantic and Modern Compositions; Studies, Cramer and others of similar grade of difficulty.

Two thirty-minute lessons and nine practice hours per week for two semesters. Course fee: \$10.00 per semester. Additional fee required for private instruction. Credit value: Six semester hours.

19. Bach, Three-part Inventions; Czerny, Op. 740, or studies of similar grade; Sonatas, Scarlatti, Haydn, Mozart, Beethoven, Op. 10, No. 1 or Op. 14; Romantic and Modern compositions.

Two thirty-minute lessons and nine practice hours per week for two semesters. Course fee: \$10.00 per semester. Additional fee required for private instruction. Credit value: Six semester hours.

29. Bach, French Suites, Preludes and Fugues, Well-tempered Clavichord; Sonatas, Beethoven, equivalent in difficulty to Op. 90; Chopin, Preludes, Mazurkas, Waltzes and Nocturnes; Schumann, Op. 12 and 15 and compositions by Schubert, Mendelssohn and Liszt; also, works by such modern composers as Debussy, Poulenc, Shostakovich, Rachmaninoff. Student recital.

Two thirty-minute lessons and nine practice hours per week for two semesters. Course fee: \$10.00 per semester. Additional fee required for private instruction. Credit value: Six semester hours.

39. Czerny, Op. 740 Studies; Clementi, Gradus ad Parnassum; Bach, English Suites or Partitas, Well-tempered Clavichord; Beethoven, Sonatas equivalent in grade of difficulty to Op. 31; Classical or Modern Concertos; Romantic compositions by Brahms, Schubert, Schumann, Mendelssohn or Chopin; Modern and contemporary composers. Student recital.

Two thirty minute lessons and nine practice hours per week for two semesters. Course fee: \$10.00 per semester. Additional fee required for private instruction. Credit value: Six semester hours.

Organ

All organ students must be able to pass the same requirements in piano as the secondary piano students.

Primary

Organ 405. Manual Technique (organ legato, repeated notes, fingering substitution), Pedal Technique (Weight control, Manual and pedal independence, Scales and Arpeggios at slow tempo), Simple Hymns in four parts; Two "Eight Little Preludes and Fugues."

One thirty minute lesson and nine practice hours per week for two semesters. Course fee: \$10.00 per semester. Additional fee required for private instruction. Credit value: Four semester hours.

Secondary

Organ 8. Gleason, "Method of Organ Playing," Yon, "Art of Pedal Technique," Five selections from Bach, "Orgelbuchlein," Five additional selections from "Eight Preludes and Fugues" (Two from memory), Chorale and Hymn playing, Reading Open Score vocal music at the organ.

Two thirty minute lessons and nine practice hours per week for two semesters. Course fee: \$10.00 per semester. Additional fee required for private instruction. Credit value: Six semester hours.

Organ 18. Hawke, "10 Pedal Studies," Trios for Manuals and Pedal, Bach, "Canzona," "Corello B Minor Fugue," Mendelssohn, "Second Sonata," Five additional selections from "Orgelbuchlein," Three Preludes and Fugues from Schirmer Books II, III, IV, Organ accompaniments to popular Church Anthems.

Two thirty minute lessons and nine practice hours per week for two semesters. Course fee: \$10.00 per semester. Additional fee required for private instruction. Credit value: Six semester hours.

Organ 28. Three additional Preludes and Fugues, Books II, III, IV. Franck, "Fantasie in G Minor," "Cantabile, Prelude, Fugue and Variation," "Pastorale," "Piece Heroique," Mendelssohn, Sonatas, Modern Compositions. Organ accompaniment to two Oratorios, Junior Recital.

Two thirty minute lessons and nine practice hours per week for two semesters. Course fee: \$10.00 per semester. Additional fee required for private instruction. Credit value: Six semester hours.

Organ 38. Bach, Selections from Trios and Sonatas, "Prelude and Fugue in E flat (St. Anne's), "Fantasie and Fugue in G Minor," "Pascaglia and Fugue in C Minor," Franck, "Three Chorales," Selections from Vierne, Widor, Concertos for Organ and Chamber Orchestra, Sight reading, Modulation. Improvisation, Senior Recital.

Two thirty minute lessons and nine practice hours per week for two semesters. Course fee: \$10.00 per semester. Additional fee required for private instruction. Credit value: Six semester hours.

Violin

Primary

Violin 405. Wohlfahrt, "Method," Opus 38; or Dancla, "Method"; Rieding, *Concertos Faciles*, Opus 34, 35, or 36 (first half).

Ability to tune own instrument. Continuation of Wohlfahrt studies, Opus 74, or Opus 45. Rieding, "Concertos Faciles," Opus 21. Dancla, "Six Little Fantasies," Opus 126.

Scales—Major scales of G, A, B flat, C, D, and minor scales (melodic) of G, A, C, and D in two octaves, quarter notes with separate bows in moderate tempo and also slurred.

Arpeggios—Same as above.

One thirty minute lesson and nine practice hours per week for two semesters. Course fee: \$10.00 per semester. Additional fee required for private instruction. Credit value: Four semester hours.

Violin 415. Dancla, "School of the Five Positions," Opus 122; A. Seitz, *Concertos* No. 1, No. 3; Viotti, *Concerto* No. 23 (first half).

Schradieck, "Technical Violin School," Part 1; Rode, *Concertos* No. 4, No. 7, No. 8; Kreutzer, "Etudes."

Scales—Major and minor scales (melodic and harmonic) of G, A, B flat, C, D, A flat, B, E, E flat, and F in three octaves.

Arpeggios—Major and minor triads of G, A, B flat, C, D, and A flat, B, E flat, E and F, separate bow and slurred.

One thirty minute lesson and nine practice hours per week for two semesters. Course fee: \$10.00 per semester. Additional fee required for private instruction. Credit value: Four semester hours.

Secondary

All students expecting to enroll in secondary violin classes must be prepared to take an examination over materials found in Violin 415.

Violin 7. Kreutzer, "Etudes"; Viotti, *Concertos* Nos. 22, 28, 29; Rode, *Caprices*; Casorti, "Bowings."

Scales—Any major or minor scales (melodic and harmonic) in three octaves, quarter notes with separate bows, also slurred with one bow for each octave and with one bow for the entire scale (ascending scale with down bow, descending scale with up bow). Any major or minor scales to be played in octaves and thirds in quarter notes, separate bows.

Arpeggios—Any major or minor triads to be played in separate bow and also slurred with three and nine notes in one bow.

Two thirty minute lessons and nine practice hours per week for two semesters. Course fee: \$10.00 per semester. Additional fee required for private instruction. Credit value: Six semester hours.

Violin 17. Rode, "Caprices"; Leonard, "Twenty-four Etudes Classiques"; DeBeriot, "Scenes de Ballet," and "Concertos No. 2, No. 7, and No. 9"; Vieuxtemps, *Fantasia Appassionata*; or works which are of the same class of difficulty.

Scales and Arpeggios—Same as in Violin 7. Junior placement test.

Two thirty minute lessons and nine practice hours per week for two semesters. Course fee: \$10.00 per semester. Additional fee required for private instruction. Credit value: Six semester hours.

Violin 27. Rode, "Caprices"; Wieniawski, "Caprices," Opus 18; Rovelli, "12 Caprices." Concertos: Spohr, Nos. 2, 6; Mozart, G Major and A Major; Burleigh, "2nd Concerto"; Mozart, violin and piano sonatas.

Major or minor scales (three octaves), broken triads, and chords of the seventh, chromatic scales; also thirds, sixths, simple octaves, fingered octaves and tenths. Junior recital.

Two thirty minute lessons and nine practice hours per week for two semesters. Course fee: \$10.00 per semester. Additional fee required for private instruction. Credit value: Six semester hours.

Orchestral and Band Instruments

Private Instruction

405. Private Instruction in Orchestral and Band Instruments

Private instruction in the below named instruments is given on the same basis as in voice, piano, organ, and violin. Lessons are taught by section leaders of the El Paso Symphony Orchestra. For full description of course of study in any individual instrument consult the Chairman of the Department of Music.

Flute	Cornet or Trumpet
Oboe	Trombone or Baritone
Clarinet	Tuba
Bassoon	Horn
Saxophone	Percussion
Violoncello	Harp

One thirty minute lesson and six practice hours per week for two semesters. Course fee: \$10.00 per semester. Additional fee required for private instruction. Credit value: Four semester hours.

Class Instruction

201. Band Ensemble

Marching practice and maneuvers; exercise and concert materials for large and small groups.

Prerequisite: Audition. Course fee: \$2.00 per semester. Three hours per week for two semesters. Credit value: Two semester hours. Physical Education credit in the Fall semester for non-band majors.

211. Band Ensemble

Field maneuvers as practiced by the full band. More advanced exercises and study material.

Prerequisite: Band 201. Course fee: \$2.00 per semester. Three hours per week for two semesters. Credit value: Two semester hours. Physical Education credit in the Fall semester for non-band majors.

221. Band Ensemble

Marching formations as practiced by the full band. Study material in keeping with the advancement of the students. Concert numbers to include overtures, symphony movements of Beethoven, Bizet, Massenet, Verdi, Rossini, and others.

Prerequisite: Fifteen hours of music including Band 211. Course fee: \$2.00 per semester. Three hours per week for two semesters. Credit value: Two semester hours.

325. Brass and Percussion Instruments

The care of the instrument; position at the instrument; tone production; physical development; scales; exercises; studies and repertory selected from standardized methods and literature of music to develop the student according to the degree of his advancement.

Prerequisite: Twelve semester hours of music. Three class periods and nine hours practice per week for one semester. Course fee: \$2.00. Credit value: Three semester hours.

326. Reed and Woodwind Instruments

The care of the instrument; position at the instrument; tone production; physical development; scales; exercises; studies and repertory selected from standardized methods and literature of music to develop the student according to the degree of his advancement.

Prerequisite: Twelve semester hours of music. Three class periods, and nine hours practice per week for one semester. Course fee: \$2.00. Credit value: Three semester hours.

231. Band Ensemble

Marching formations as practiced by the full band. Overtures, symphonic works of Debussy, Dvorak, Liszt, Ravel, Rimsky-Korsakoff, Tschai-kowsky, von Suppe, Wagner. Concert numbers also include some of the larger works of the moderns. (For band majors: more advanced study and experience in conducting, with the study of more important concert forms. A public performance in conducting will be required.)

Prerequisite: Eighteen hours of music including Band 221. Course fee: \$2.00 per semester. Four hours per week for two semesters. Credit value: Two semester hours.

Voice**Primary**

209. This course is for the public school music teacher. As in Voice 4 the student gets certain foundation studies; but also, the course is designed to acquaint the public school teacher with her problems both within the school organization and within community groups.

One thirty minute lesson and six practice hours per week for one semester. Course fee: \$10.00 per semester. Additional fee required for private instruction. Credit value: Two semester hours.

212. Continuation of 209 with the student singing more advanced exercises and song materials.

One thirty minute lesson and six practice hours per week for one semester. Course fee: \$10.00 per semester. Additional fee required for private instruction. Credit value: Two semester hours.

Secondary

4. Principles of correct posture; correct breathing and breath control; correct tone placement; correct articulation of vowels and consonants; elementary exercises for development of the voice; exercise Panofka Concone, Vaccai covering major scales, arpeggi intervals; coördination of physical, mental, and vocal in interpretation of simple songs in American, English, Italian, and French.

Participation in weekly recital programs.

Two thirty minute lessons and nine practice hours per week for two semesters. Course fee: \$10.00 per semester. Additional fee required for private instruction. Credit value: Six semester hours.

14. Review posture breathing and articulation, carry on with more involved exercises in arpeggi, minor scales, legato, staccato, embellishment exercises Vaccai, Panofka Concone, Marchesi, Lamperti. Song literature of Romantic period in German, French, Italian, and English. Schumann, Schubert, Brahms, Handel, and other French composers as Debussy, Massenet, Here, and others. Introduction to lighter sacred song literature; lighter aria from opera and more work on interpretation of song literature; participation in weekly recital program.

Two thirty minute lessons and nine practice hours per week for two semesters. Course fee: \$10.00 per semester. Additional fee required for private instruction. Credit value: Six semester hours.

24. More advanced technique study of vocalise for flexibility and velocity. Bordogni, Marchesi, Lamperti, Sieber, Viardot—recitative free and measured forms opera—oratorio song literature through good modern in American, English, French, Italian, German. Strive for more perfection in diction and interpretation; participation in weekly recitals and Junior recital.

Two thirty minute lessons and nine practice hours per week for two semesters. Course fee: \$10.00 per semester. Additional fee required for private instruction. Credit value: Six semester hours.

Organizations

Band 201*

Marching practice and maneuvers; exercise and concert materials for large and small groups. This course is required for all students expecting to study wind instruments for credit.

*During the Fall semester only, a student with the permission of the instructor of Band and Gold Diggers may attend Band 201 or Gold Diggers 204 instead of a regular section of required Physical Education. In this case the student will be registered for Physical Education, will receive credit in Physical Education (but not in Band or Gold Diggers), and will pay the course fee of \$2.00 per semester for Physical Education.

Prerequisite: Audition. Course fee: \$2.00 per semester. Five hours per week for two semesters. Credit value: Two semester hours.

Choir 202

The mixed A Cappella choral ensemble on the campus is open to all students who have had previous vocal experience (solo or glee club).

Prerequisite: Audition. Course fee: \$2.00 per semester. Five hours per week for two semesters. Credit value: Two semester hours.

*Gold Diggers 204**

This organization combines singing and marching, its main purpose being that as a mobile entertainment unit for military hospitals in this area along with between halves performances at football games.

Prerequisite: Audition. Course fee: \$2.00 per semester. Five hours per week for two semesters. Credit value: Two semester hours.

Chorus 205 (All College)

This mixed singing organization is open to all students interested in any kind of choral work. The song materials cover folk music, light ballads and light opera selections.

Required of all majors in music unless excused by Chairman of the Department of Music.

No prerequisite. Five hours per week for two semesters. Credit value: Two semester hours.

Orchestra 203

This organization is open to all string and wind instrumentalists who are interested in performing the finest of instrumental ensemble music.

Five hours per week for two semesters. Credit value: Two semester hours.

PHILOSOPHY AND PSYCHOLOGY

PROFESSOR ROTH; ASSISTANT PROFESSOR HUTCHINS

Philosophy

312f. Logic

Introduction to essentials of correct thinking; deductive and inductive reasoning; fallacies and argumentation; scientific methodology.

Prerequisite: Sophomore standing. Credit value: Three semester hours. Three class hours per week for one semester.

314f. Problems of Philosophy

An introduction to the main general problems of philosophy such as those of matter, mind, life, truth and value.

Prerequisite: Sophomore standing. Credit value: Three semester hours. Three class hours per week for one semester.

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. Three class hours per week for one semester.

316s. *Philosophies of Life*

A study of the various classical philosophies of life and their moral, religious and esthetic values.

Prerequisite: Sophomore standing. Credit value: Three semester hours. Three class hours per week for one semester.

317s. *The Philosophy of Civilization*

A comprehensive study of the development of civilization and culture; man's place in the world today and his potential destiny.

Prerequisite: Sophomore standing. Credit value: Three semester hours. Three class hours per week for one semester.

330f. *Ethics of Human Relationships*

An attempt to find functional bases for the practical solution of realistic problems involved in human relationships; the implications of man's biological interrelatedness, psychological motivations, social and economic interdependence will be stressed.

Prerequisite: Junior standing. Credit value: Three semester hours. Three class hours per week for one semester.

331f. *Integration of the Fields of Knowledge*

An attempt to show the interrelationship of the several branches of human knowledge; the close bond existing among the physical, biological and social sciences; our quest to synthesize such knowledge so as to evolve therefrom a clearer perspective as to the purpose of God and the Universe, man's place in the world and his ultimate destiny.

Prerequisite: Junior standing. Credit value: Three semester hours. Three class hours per week for one semester.

Psychology

310f. *Introductory Psychology*

A survey of the field of general psychology.

Prerequisite: Sophomore standing. Credit value: Three semester hours. Three class hours per week for one semester.

311s. *Fields of Psychology*

Survey of applied, business, industrial, abnormal and social psychology; mental measurements and experimental methods.

Prerequisite: Psychology 310 or its equivalent. Credit value: Three semester hours. Three class hours per week for one semester.

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: Psychology 310 and Sophomore standing. Credit value: Three semester hours. Three class hours per week for one semester. (May not be counted for credit in addition to Education 314.)

316s. *Business Psychology*

A study of the psychological factors and principles involved in modern business, industry, marketing, advertising and salesmanship.

Prerequisite: Psychology 310 or its equivalent, or Junior standing in Business Administration. Credit value: Three semester hours. Three class hours per week for one semester.

318f. *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: Psychology 310 and Sophomore standing. Credit value: Three semester hours. Three class hours per week for one semester. (May not be counted for credit in addition to Education 316.)

320f. *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. Three class hours per week for one semester.

321. *History of Psychology*

A history of the development of psychological theories beginning with that of the early Greeks and leading up to the present time.

Prerequisite: Six semester hours of psychology or philosophy. Credit value: Three semester hours. Three class hours per week for one semester.

339. *Counseling and Vocational Guidance*

A study of the principles and methods used in counseling and vocational guidance. The counseling techniques used in school, home, personal life and social situations. The use of tests, interviews and other techniques in vocational selection and training.

Prerequisite: Twelve semester hours of psychology or education or permission of the chairman of the department. Credit value: Three semester hours. Three class hours per week for one semester. (May not be counted for credit in addition to Education 339K.)

343. Lectures in Clinical Psychology

A study of clinical problems, case study methods and discussion of psychological tests used in intelligence, personality and special aptitudes with analysis and interpretation of results.

Prerequisite: Six semester hours of psychology. Credit value: Three semester hours. Three class hours per week for one semester.

344s. Mental Hygiene

Prerequisite: Six semester hours in psychology or philosophy, or both. Credit value: Three semester hours. Three class hours per week for one semester.

351j. Social Psychology

A study of social phenomena; social motivation, behavior and control. Credit value: Three semester hours. Three class hours per week for one semester. Prerequisite: Six semester hours in philosophy or psychology or both.

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 of psychology or philosophy, or both. Credit value: Three semester hours. Three class hours per week for one semester.

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: Six semester hours of psychology or education and Junior standing. Credit value: Three semester hours. Three class hours per week for one semester. (May not be counted for credit in addition to Education 355.)

357. Mental Hygiene and the Problems of Children

A study of the conditions and factors essential for healthful mental development. Methods of unfolding the youthful personality and of reconstructing same will be attempted with special stress on the problems peculiar and unique to the school child.

Prerequisite: Six semester hours of psychology or philosophy, or both. Credit value: Three semester hours. Three class hours per week for one semester. (May not be counted in addition to Education 357.)

361. Physiological Psychology

Basic psychological processes in relation to structure and function.

Prerequisite: Six semester hours of psychology or Psychology 310 and Zoology 301 and 302. Credit value: Three semester hours. Three class hours per week for one semester.

362. General Experimental Psychology

This course acquaints the student with the basic facts, principles and methods of psychological science. Lecture, classroom demonstrations and laboratory experiments.

Prerequisite: Six semester hours of psychology. Credit value: Three semester hours. Fee: \$2.00. Two lectures and three laboratory hours per week for one semester.

HEALTH, PHYSICAL EDUCATION AND RECREATION

PROFESSOR CURTICE; ASSOCIATE PROFESSOR WATERS; INSTRUCTORS
KANE, SMITH, JONES, MOORE

The service courses are provided (1) to promote vigorous, mental, emotional, social and physical health; (2) to further the education of the individual through physical activities; (3) to develop motor skills; and (4) to prepare for leisure time activity. Definite instruction is given in class periods and students are graded on skills, knowledge and achievement. Class instruction is supplemented by a varied program of intramural sports for men and for women which give an opportunity for additional participation and recreation.

The service courses for men are designed to provide vigorous, strenuous, and aggressive activities that will be of lasting value. All men students will be given instruction in the following activities: touch football, tumbling, gymnastics, speedball, boxing, wrestling, track, swimming, and other minor sports.

The service courses for women are designed to provide activities that are mentally and physically stimulating, as well as promoting grace, vigor and poise through group and individual instruction in dancing, swimming, riding, field hockey, archery, volleyball, tennis, tumbling, and other minor sports.

Four semesters of service courses in Physical Education are required of each student for graduation. One semester hour of credit is allowed for each semester of service courses.

Professional Courses in Health and Physical Education**Physical Education**

The majors in Physical Education are strongly urged to have one minor in Health Education and a second minor in another teaching field.

Those who wish to qualify as physical education teachers or as coaches must meet the following requirements set up by the Texas State Department of Education.

1. Full-time teachers must have 24 semester hours in Physical and Health Education. (A person who coaches athletics and teaches one or more classes in Physical Education is considered a part-time teacher.)

2. Part-time teachers must have 12 hours in Physical and Health Education. (Any person who teaches as many as two classes in Physical Education per day in combination with other subjects or who coaches athletics and teaches some subject other than Physical Education is considered a part-time teacher.)

3. All beginning classroom teachers who direct or teach any part of the Physical or Health Education program must have at least six semester hours of college credit in professional teacher-training courses in that field. Beginning teachers should register for Health Education 310 and Physical Education 321.

**201. Service Course for Freshman Men*

Runs throughout both semesters. Credit value: Two semester hours. Course fee: \$2.00 per semester. (If student elects horseback riding, \$10.00 additional per month.) Three hours per week for two semesters.

**202. Service Course for Freshman Women*

Runs throughout both semesters. Credit value: Two semester hours. Course fee: \$2.00 per semester. (If student elects horseback riding \$10.00 additional per month.) Three hours per week for two semesters.

**203. Service Course for Sophomore Men*

Runs throughout both semesters. Credit value: Two semester hours. Course fee: \$2.00 per semester. (If student elects horseback riding \$10.00 additional per month.) Three hours per week for two semesters.

**204. Service Course for Sophomore Women*

Runs throughout both semesters. Credit value: Two semester hours. Course fee: \$2.00 per semester. (If student elects horseback riding, \$10.00 additional per month.) Three hours per week for two semesters.

312. Methods in Physical Education

Theory and practice in Physical Education activities that are applicable to the elementary and junior high-school boy, with special emphasis on elementary tumbling, apparatus, calisthenics, pyramid building, stunts, and games.

Prerequisite: Sophomore standing. Credit value: Three semester hours. Open to men only. Three hours of lecture per week for one semester.

*During the Fall semester only, a student with the permission of the instructor in Band and Gold Diggers may attend Band 201 or Gold Diggers 204 instead of a regular section of required Physical Education. In this case the student will be registered for Physical Education, will receive credit in Physical Education (but not in Band or Gold Diggers), and will pay the course fee of \$2.00 per semester for Physical Education.

16. Major Sports

Coaching methods in football, basketball, and track. Training conditioning, practice schedules, and sport fundamentals are stressed.

Prerequisite: Sophomore standing. Credit value: Six semester hours. Three lecture hours per week for two semesters.

319. Organization and Administration of Physical Education

- The place of Physical Education in the total educational situation will be presented, along with fundamental aspects of a well-rounded Physical Education program. Particular emphasis will be placed on the administrative problems underlying a functional program.

Prerequisite: Sophomore standing. Credit value: Three semester hours. Three hours of lecture per week for one semester.

321. Curriculum Construction

A study of the principles of curriculum construction, the philosophy of play, content, progression and organization of the play program for all levels of the educational program. A curriculum to meet a specific situation will be outlined.

Prerequisite: Junior standing. Credit value: Three semester hours. Three hours of lecture per week for one semester.

322. Methods in Physical Education—Advanced

Theory and practice in Physical Education activities that are applicable to the high-school boy. Advanced teaching skills and methods will be introduced in tumbling, apparatus work, gymnastics, boxing, wrestling, track activities, gymnasium games, and certain minor sports.

Prerequisite: Junior standing. Credit value: Three semester hours. Course fee: \$2.00. Two hours of lecture and four laboratory-hours per week for one semester. Open to men only.

350. Organization of Community Recreation

Methods of organizing and directing community recreation. The nature and scope of a public recreation program, the various agencies providing recreation and the problems for administering a comprehensive program.

Prerequisite: Junior standing. Credit value: Three semester hours. Three hours of lecture per week for one semester.

351. Recreational Leadership

Students will be given an opportunity to assemble a wide variety of recreational materials suitable to the varied interests of children, adolescents and adults. Actual leadership experience will be provided.

Prerequisite: Junior standing. Credit value: Three semester hours. Three hours of lecture per week for one semester.

355. Corrective Physical Education

The need for emphasis on prevention and correction of defects as a part of the Physical Education program. The specific exercise treatment for certain functional and structural conditions in cooperation with the school physician.

Prerequisite: Junior standing. Credit value: Three semester hours. Three hours of lecture per week and special field trips for one semester.

356. *Tests and Measurements in Health and Physical Education*

A study of tests will be made, both in Health and Physical Education as to their purpose and use, scoring and interpretation.

Prerequisite: Junior standing. Credit value: Three semester hours. Three hours of lecture per week for one semester.

364. *Administration of Athletics in Schools and Colleges*

A study will be made of current controversies and problems in the conduct of athletics, organization of athletic departments, selection of staff, sports program, purchases and care of athletic equipment, management of varsity and intramural athletics, maintenance of facilities and equipment.

Prerequisite: Junior standing. Credit value: Three semester hours. Three hours of lecture per week for one semester.

Health Education

310. *Individual Hygiene*

Study of home and community health problems. Emphasis and stress on physical fitness, prevention of disease, safety, establishment of proper health habits, and knowledge to use effectively medical science.

Prerequisite: Sophomore standing. Credit value: Three semester hours. Three hours of lecture per week for one semester.

320. *Community Hygiene*

Consideration of health of people as a group and with the social and governmental agencies which are concerned with environmental control and health protection.

Prerequisite: Health Education 310 or approval of the department head. Credit value: Three semester hours. Three hours of lecture per week and special field trips for one semester.

330. *School Health Problems*

Major problems of the organization and administration of school health programs will be analyzed.

Prerequisite: Health Education 310 or 320 or approval of the department head. Credit value: Three semester hours. Three hours of lecture and special field trips for one semester.

340. *Developmental Health*

Study of the health problems developing at the various maturity levels, from birth to senility.

Prerequisite: Health Education 310 and 320 or approval of the department head. Credit value: Three semester hours. Three hours of lecture per week for one semester.

341. *Principles of Health Education*

Individual and community health problems will be discussed. Hygienic effects to be realized from an organized health program. Discussion and prevention of communicable diseases will be treated in schools, communities, and cities.

Prerequisite: Junior standing. Credit value: Three semester hours. Five class periods per week for one semester.

344. *Mental Hygiene (Psychology)*

Educational psychology may be counted as one of the prerequisites.

Prerequisite: Six semester hours in psychology or in philosophy or both. Credit value: Three semester hours. Three lecture periods per week for one semester.

360. *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: Health Education 310 and 320 or approval of the department head. Credit value: Three semester hours. Three lecture hours per week for one semester.

COLLEGE OF MINES AND METALLURGY

REGISTER OF STUDENTS

Spring Semester, 1945-46

Abdou, George	El Paso	Arriola, Sergio	El Paso
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Acevedo, Josefina	El Paso	Aspeitia, Eloisa	El Paso
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	Chihuahua, Chih., Mex.	Barrios, Xavier	El Paso
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Anderson, Jean T.	El Paso	Bell, Howard	Valentine
Anderson, Katherine	El Paso	Bell, Madeline	Wink
Anderson, Lois	El Paso	Bell, Rose Marian	El Paso
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Ansara, Shokray	El Paso	Beltran, Antonio	El Paso
Appleby, Helen Jo	El Paso	Bemis, Robert E.	El Paso
Appledorf, Norma	El Paso	Benitez, Martha G.	El Paso
Appleton, Phyllis Rae	El Paso	Bennett, Dorothy Jeanne	
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Armendariz, Cesar F.	El Paso	Bennett, Mary Jo	El Paso
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Arnold, George Walter	El Paso	Bickler, Betty Jean	Elgin, Ill.
Arnold, Jack O.	El Paso	Bickley, Roberta J.	El Paso
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Arnold, Tommy W.	El Paso	Biggers, Averil	El Paso
Aronson, Albert A.	Amarillo	Bilodeau, Francis	El Paso
Aronson, Howard	El Paso	Binney, Ella Louise	El Paso
Aronson, Mrs. Louise	El Paso	Birchfield, William F., Jr.	El Paso
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Bixler, Jesse A.	El Paso	Buttram, Harold	Oklahoma City, Okla.
Black, James H.	Fabens		
Black, William A.	El Paso		
Blackwell, Paula	El Paso	Caballero, Margarita	El Paso
Blackwell, Walter T.	El Paso	Cabrera, Fermin	Juarez, Chih., Mex.
Blakely, Evan B.	El Paso	Cairns, Shirley	El Paso
Blakemore, Marcelle	El Paso	Calamia, Joe	El Paso
Blanco, Javier	El Paso	Calderon, Juventino A.	El Paso
Blaugrund, Laura	El Paso	Calderon, Rafael F.	El Paso
Blaugrund, Ann Louise	El Paso	Caldwell, Charley M.	El Paso
Blea, Jacob, Jr.	El Paso	Caldwell, Mary Ann	El Paso
Bockoven, John C.	El Paso	Calvillo, William J.	El Paso
Bomar, Nancy Ellen	El Paso	Campbell, Geraldine	El Paso
Bombach, Carlos D.	El Paso	Campbell, Patricia	Douglas, Ariz.
Boney, Geraldine	El Paso	Campos, Jose	El Paso
Booher, Jackie	Ysleta	Cantrell, Louis	El Paso
Booth, Joe B.	El Paso	Cardenas, Leopoldo	El Paso
Booth, Robert Henry	El Paso	Carpenter, Andrew	El Paso
Borders, Margaret A.	El Paso	Carpenter, Charley	El Paso
Borschow, Julian A.	El Paso	Carper, Eugene	El Paso
Botello, David	El Paso	Carr, Louise	Clint
Bothwell, Nina Lou	El Paso	Carrasco, Maria	El Paso
Bovard, Gerald R.	El Paso	Carrera, Emilia	El Paso
Bower, June	El Paso	Carrera, Yvonne	El Paso
Bower, Patricia	El Paso	Carroll, Ernest	El Paso
Bowington, Robert J.	El Paso	Carson, Mrs. Edith C.	El Paso
Box, Tommy	El Paso	Cary, Lady Margaret	Ft. Bliss
Boylan, Margaret	El Paso	Casavantes, Alberto A.	El Paso
Brackus, Richard P.	El Paso	Casavantes, Luis	El Paso
Brand, Irwin	Laurelton, N.Y.	Casillas, Rodolfo	El Paso
Brann, Patricia	El Paso	Casner, Edward Hunter	El Paso
Brasmer, Leanova	El Paso	Cason, Carroll C.	El Paso
Braun, Dolores	El Paso	Casso, Thomas A.	El Paso
Breaker, James	Clint	Casteel, Wylie E., Jr.	El Paso
Bremer, Manuel	Chihuahua, Chih., Mex.	Cates, Mary Jeanne	El Paso
Brennan, Ann	El Paso	Cauble, Frank Emerson	El Paso
Breton, Armand	El Paso	Causey, Barbara	El Paso
Bridgers, Mrs. Rowena	El Paso	Chacon, Ralph M.	El Paso
Brieden, Raymond	El Paso	Chambers, Emma Lou	El Paso
Brooks, Fred	El Paso	Champie, Channing K.	El Paso
Brown, Anita	El Paso	Chapman, John B.	El Paso
Brown, Felice	El Paso	Chapman, Maryon	El Paso
Brown, Lyle	El Paso	Chapman, Wilson A.	Biggs Field
Brown, Mary Jo	El Paso	Chapman, Mrs. W. T.	El Paso
Brown, William E., Jr.	El Paso	Chappell, Phil	Dyersburg, Tenn.
Brownlow, Joseph L.	El Paso	Chappell, Sally	El Paso
Buehler, Mary Frances	El Paso	Charles, Herman E.	El Paso
Buhler, Betty Rose	El Paso	Chavez, Antonio	El Paso
Bullard, Edwin R.	El Paso	Chavez, Monserratt D.	El Paso
Bullington, Martha Ann	El Paso	Chew, Fred	El Paso
Bulloch, Lee Doyle	El Paso	Chew, Wellington Y.	El Paso
Bunner, Dorothy	El Paso	Chow, Harvey	El Paso
Burleson, Mrs. M. L.	El Paso	Christian, Christal	Abilene
Burnett, Catherine	El Paso	Clark, Howard D.	El Paso
Burns, Nancy	El Paso	Clark, Robert E.	El Paso
Burnstein, Norma Lee	Olathe, Kans.	Clark, Tracy P.	Earlham, Ind.
Burtis, Eloise	El Paso	Clark, Victor J.	Pharr
Bustamante, Robert	El Paso	Clendenin, Alice	El Paso
		Cockrell, Forrest M.	El Paso

Colby, Alma B.	El Paso	Delgado, Gloria	El Paso
Collier, Muzette	Alto	Delgado, Roberto	El Paso
Collier, Osmond	El Paso	del Hierro, Nettie V.	El Paso
Collier, Robert E.	El Paso	del Valle, Salvador	El Paso
Collins, Arthur		Denman, Nona Kate	El Paso
..... Chihuahua, Chih., Mex.		Denton, George	Clint
Collins, Spencer	El Paso	Derrick, Elaine M.	El Paso
Conde, Henry	El Paso	Derrick, Howard C.	El Paso
Conger, Thomas D.	El Paso	de Santos, Elias	Smelertown
Cook, Jan	El Paso	De Soto, John, Jr.	El Paso
Cooley, Charles Milton	El Paso	de Wetter, Mardee	El Paso
Coppinger, Dorothy	El Paso	DeWitt, William G.	El Paso
Corbin, Marilyn	El Paso	de Zavala, Lawrence	El Paso
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Cortazar, Oscar	El Paso	Dickenson, Helen C.	El Paso
Cotton, George	Palestine	Dickinson, George G.	El Paso
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Cravey, Ben	El Paso	Donaldson, Chloe H. Anthony, N.M.	
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Crockett, Miriam	El Paso	Downey, Marshall	El Paso
Crow, Alexander	El Paso	Draeger, Genevieve	El Paso
Crowe, Edward E.	El Paso	Druet, Marguerite N.	El Paso
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Crump, William Irwin	El Paso	Dugan, Mary Louise	El Paso
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Cuellar, Ramiro	Juarez, Chih., Mex.	Duncan, Jerry	El Paso
Cuenca, Carmen	El Paso	Duncan, Nancy	Ysleta
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Culp, Omer Roy	El Paso	Durrill, Peggy Anne	El Paso
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Cummings, Ruth C.	El Paso	Dyo, Kaoru	Mexico, D.F.
Cunningham, James	Coos Bay, Ore.		
		Eads, Herbert C.	El Paso
Dakan, Colleen	El Paso	Easter, Virginia K.	El Paso
Dakan, Jerry	El Paso	Edmondson, Charles	El Paso
Daly, Roland	Presidio	Egbert, Orville E.	El Paso
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Davenport, Raymond W.	El Paso	Ehrmann, Virginia—Fort Bayard, N.M.	
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Davis, Thomas F.	El Paso	Emmett, Gabriel Thomas	El Paso
Davis, William V.	El Paso	Endlich, Elisa	El Paso
Davis, Wymond	El Paso	Eppler, Charles	Orla
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Dehlinger, Ross W.	El Paso	Esparza, Lupe	El Paso
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..... Juarez, Chih., Mex.		Estabrook, Sara	Wink
de la Garza, Jesus	El Paso	Estes, John H., Jr.	McCamey
de la Rosa, Manuel	El Paso	Evans, Betty Lewis	El Paso
Delgado, Adalberto	El Paso	Evans, Clarence	El Paso

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Evans, Ross S.	El Paso	Gaines, Harold Jay ..	Ysleta
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Fager, Ed	El Paso	Garcia, Narciso	El Paso
Fager, Helen	El Paso	Garcia-Nunez, Emilia ..	El Paso
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Falby, Frances	El Paso	Gaspar, Lester	El Paso
Farlow, Byron J.	El Paso	Gavaldon, Jesus	El Paso
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Farmer, Betty Lou	El Paso		Chihuahua, Chih., Mex.
Farquear, Malcolm	El Paso	Gibson, Gwendolyn	El Paso
Farris, Frank H., Jr.	Dallas	Gibson, Robert	El Paso
Farwell, Marie	New Orleans, La.	Gibson, Virginia S.	El Paso
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Ferlet, Robin	Anthony, N.M.	Gilbert, Robert J.	Canutillo
Fernandez, Argelia	El Paso	Gill, Jack	El Paso
Fernandez, Carlos	El Paso	Gilland, William D.	El Paso
Ferrell, Albright E.	Pampa	Gillespie, Dorothy	El Paso
Fields, Guy N., Jr.	Clint	Gillett, R. Earl	El Paso
Fields, Helen E.	Clint	Glass, Roy Irwin, Jr.	El Paso
Fineron, Ted	El Paso	Glaze, Frank	Vega
Fisher, Kathleen	El Paso	Goff, Marian	El Paso
Fisher, Mary D.	Fort Davis	Gomillion, Mary Louise ..	El Paso
Fisher, Robert	El Paso	Gonzalez, Manuel U.	El Paso
Fisher, Robert B.	El Paso	Gonzalez, Octavio R.	El Paso
Fitzgerald, Dewey E.	El Paso	Gonzalez, Raul	El Paso
Fleming, Marjorie	El Paso	Gonzalez, William	El Paso
Fletcher, Richard E.	El Paso	Goodrich, John	El Paso
Flores, Consuelo	El Paso	Gorman, John J.	El Paso
Flores, Elvira	El Paso	Got, Grace Chew	El Paso
Flores, Josephine	El Paso	Gottlieb, Bernice	El Paso
Flores, Louis P.	El Paso	Gowan, Laura L.	El Paso
Floyd, Bettye	El Paso	Gowan, Thomas John	El Paso
Floyd, J. M.	El Paso	Graf, Norma Ruth	El Paso
Folsom, Maude Ward	El Paso	Grattan, Wilna	
Foss, Joan	El Paso		Nuevas Casas Grandes, Mex.
Foulks, Clayton	El Paso	Graves, Joe B.	El Paso
Fox, Mary Ethel	El Paso	Graves, Mary Alice	El Paso
France, Walter	Corpus Christi	Graves, Robert Donald ..	El Paso
Francis, Betty Rose	El Paso	Gregory, Frances O.	
Frank, Betty Ann	Houston		Chihuahua, Chih., Mex.
Frankel, Alvin L.	El Paso	Griffith, John R.	El Paso
Frausto, Sixto	El Paso	Grisson, James H.	El Paso
Frazier, George	El Paso	Groseclose, Louise	El Paso
Freeman, Jane	El Paso	Guevara, A. Francisco ..	El Paso
Freeman, Josephine	El Paso	Guffey, Loraine	El Paso
Frias, Carlos	El Paso	Gumaer, Ann	El Paso
Friedman, Carl	El Paso	Gunn, Alice E.	El Paso
Frink, William	Parral, Chih., Mex.	Gutierrez, Eva	El Paso
Fuentes, Beatrice	El Paso	Gutierrez, C. Georgia ..	El Paso
Fuentes, Charles A.	El Paso	Guynes, Deane M.	El Paso
Fuentes, Frank A.	El Paso		
Fugate, William Lonnie ..	Evans, Colo.	Hacquard, Betty	El Paso
Fuller, Benny	Presidio	Haddad, Cafa	El Paso
Funk, Flora Alice	El Paso	Haggard, James D.	El Paso
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		Hales, James F.	Sweetwater

Hales, Sarah	Sweetwater	Hintze, William	El Paso
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Haninger, Betsy Ann	El Paso	Holloway, Thomas A.	El Paso
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Heid, James	El Paso	Ivy, Wynemah	El Paso
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Henning, Marian V.	El Paso	Jacquin, Jules J.	El Paso
Herendeen, Laura	El Paso	Jenkins, Donald	Fort Bliss
Herlin, Charles P.	El Paso	Jenkins, Maurine M.	El Paso
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Hernandez, Dora	El Paso	Jennings, Ruth	El Paso
Hernandez, Juventino	El Paso	Jenson, Mary Pearl	El Paso
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Hernandez, Tony	El Paso	Johnson, Charlie Glen	El Paso
Herdon, James William	El Paso	Johnson, Robert R.	El Paso
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Hess, Emily M.	Syracuse, N.Y.	Jones, Frances	El Paso
Hickerson, Carlos, Jr.	El Paso	Jones, Richard D.	Pennsylvania
Hickerson, Gloria	El Paso	Joseph, George	El Paso
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Hillis, Joe Ann	El Paso		
Hine, Virginia	El Paso		
Hiner, Robert	El Paso		

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Kennedy, William M.	El Paso	Lucas, William E.	El Paso
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Kessler, William Jack	El Paso	Lundy, J. H.	El Paso
Kettery, Jane L.	El Paso	Lundy, Marguerite	El Paso
King, Robert P.	El Paso	Luyster, James	El Paso
Kipp, Eleanor	El Paso	Lyle, Francis A.	El Paso
Kirby, Dann	El Paso	Lynch, Jehanne	El Paso
Kircher, Rita	El Paso	Lynch, Shirley Anne	El Paso
Kirchner, Hester C.	El Paso	Lyon, Lily Jane	El Paso
Klink, Betty Jane	El Paso	Lyon, William L., Jr.	El Paso
Klink, Pauline	El Paso	Lyons, William R.	Monroe, La.
Knapp, Kathryn	El Paso		
Knaut, June	El Paso	McBee, William Henry	El Paso
Knight, Gladys	El Paso	McBride, George B.	Eden
Knoblauch, Edward	El Paso	McBride, Virginia F.	Marfa
Kownslar, Robert C.	Eagle Pass	McCall, Martha Mae	El Paso
Krapp, John	El Paso	McCamant, Estella	El Paso
Krauss, Evelyn	El Paso	McCarty, Mary Brown	El Paso
Kubicek, Albert	Prague, Okla.	McCaskill, Terry H.	El Paso
		McConn, Richard L.	El Paso
LaMar, C. H.	El Paso	McCray, Bill	El Paso
Landsdowne, Dickie	El Paso	McDonald, Malcolm A.	El Paso
Lane, Virginia	El Paso	McGalliard, Patricia	Painesville, Ohio
Lardizabal, Laura	El Paso	McGalliard, Robert Long Branch,	N.J.
Lassetter, Stuart	El Paso	McGovern, Hugh	El Paso
Lattner, Patricia	Olathe, Kans.	McGovern, Mary	El Paso
Lawrence, Joseph C.	El Paso	McGurk, Jack B.	El Paso
Leasure, Martha	El Paso	McKenzie, Willetta	Marfa
Leasure, Mary Elizabeth	El Paso	McKinney, Sally	El Paso
Leasure, Ruth	El Paso	McNutt, Dick E.	El Paso
Lee, Dorothy	El Paso	McNutt, Ray E.	El Paso
Leib, Sylvia	El Paso	McRimmon, J. W.	El Paso
Leibson, Arthur H.	El Paso	Maass, Carlos	Juarez, Chih., Mex.
Lembo, Frank V.	Providence, R.I.	MacCallum, Frank	El Paso
Leemons, Mickey	Ysleta	Macias, Benjamin	El Paso
Leonard, B. R., Jr.	El Paso	MacIntyre, Josephine	El Paso
Lerner, Sylvia	El Paso	MacKinnon, Kay S.	Alaska
Levy, Irene	El Paso	Mader, Paul	El Paso
Lewis, Louise Joyce	El Paso	Maese, Mary Louise	El Paso
Lewis, Nina Gene	El Paso	Mahoney, Martha S.	
Lide, Henry S.	El Paso		Chihuahua, Chih., Mex.
Lide, Lilla B.	El Paso	Malone, Harold W.	El Paso
Lightbourn, Maria Teresa	El Paso	Maloney, Patty	El Paso
Limon, Margaret	El Paso	Mangan, Frank John	El Paso
Lindsey, Marvaine W.	Amarillo	Mares, Jose G.	El Paso
Linthicum, Kathleen	El Paso	Mares, Jose M.	El Paso
Llamas, Hector M.		Mark, Donald	El Paso
	Chihuahua, Chih., Mex.	Marmolejo, David	El Paso
Lockhart, Charles H.	El Paso	Marós, Mary	Fabens
Lochhausen, Roberta	El Paso	Marr, Dora Lee	Odessa
Logan, Nancy S.	El Paso	Martin, Rebecca	El Paso
Lopez, Andres	Juarez, Chih., Mex.	Martin, William B.	Los Angeles, Calif.
Lopez, Arthur	El Paso	Martinez, C. Alfonso	El Paso
Lord, Warren	El Paso	Martinez, Ambrosio	El Paso
Losch, Frank J.	El Paso	Martinez, Arcelia	El Paso
Lott, Thomas Ellison	El Paso	Martinez, Ernesto B.	El Paso
Lovelady, John H.	El Paso	Martinez, Juan, Jr.	El Paso

Register of Students

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Martinez, Martha	El Paso	Mulcahy, Anne	El Paso
Martinez, Tony	El Paso	Mulhern, Donald Joe	El Paso
Martinez, Victor	El Paso	Mullen, J. Harold	El Paso
Mathews, Robert W.	Las Cruces, N.M.	Munzinger, Gretchen	El Paso
Matthews, Doris	El Paso	Murchison, Patricia	El Paso
Maxwell, James R.	El Paso	Murphy, John E.	El Paso
May, Olga W.	El Paso	Mustain, Paul	El Paso
Meadors, Dixie May	El Paso	Myers, James R.	El Paso
Meagher, Janice L.	El Paso		
Medrano, Fernando	El Paso	Nabhan, James	El Paso
Medrano, Octavia	El Paso	Nagle, Dale B.	El Paso
Melton, Ellis Owen	El Paso	Nall, James E.	El Paso
Melton, Jack D.	El Paso	Napoles, Carmen	El Paso
Melton, Mary M.	El Paso	Nash, Joan Ryan	El Paso
Melton, Patricia M.	El Paso	Navarro, Emilio A.	
Melton, Thomas John	El Paso		Chihuahua, Chih., Mex.
Menard, Yvette	El Paso	Navarro, Libertad Juarez,	Chih., Mex.
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Merriman, LeGrand	El Paso		Chihuahua, Chih., Mex.
Merritt, Ruth Lynn	El Paso	Negrette, Raoul	El Paso
Mewhorter, Betty M.	El Paso	Nelson, Robert A.	El Paso
Mewhorter, William	Amarillo	Neugebauer, Betty L.	El Paso
Meyers, Laura Scott	El Paso	Neugebauer, Edward R.	El Paso
Michael, Vivian	El Paso	Newman, Robert	El Paso
Miller, Forrest	Artesia, N.M.	Nichols, B. W.	El Paso
Miller, Graydon Dean	El Paso	Nichols, Joanne	El Paso
Miller, Robert Rea	El Paso	Nichols, Rachel P.	El Paso
Miller, Walter H.	El Paso	Nieto, Tony	El Paso
Miner, Chas. Phillip	El Paso	Nordia, Kenneth	El Paso
Mitcham, Robert T.	El Paso	Nordin, Windsor H.	El Paso
Mitchell, John R.	El Paso	Norris, Mearl W.	El Paso
Mitchell, Marjorie	Marfa	Nowlin, Gertrude	El Paso
Mizener, Harry	El Paso		
Mock, Glenn	El Paso	Obregon, Antonio	El Paso
Moffett, Earl H.	El Paso	Ochoa, Jesus	Smeltertown
Montelongo, Gloria	El Paso	Odell, Raymond T.	El Paso
Montes, Bertha	El Paso	Odum, Joy M.	El Paso
Montes, Ezequiel	El Paso	O'Flaherty, John E.	El Paso
Moore, John Paull	El Paso	Ohswaldt, Dolores Jean	El Paso
Moore, Patricia	El Paso	Oliver, Patsy Jane	El Paso
Moore, Robert H.	El Paso	Oltman, V. Jeanne	El Paso
Moran, Virginia R.	El Paso	O'Meara, Robert F.	El Paso
Moreno, Edmund J.	El Paso	Ontiveros, Eloy	El Paso
Moreno, Francisco X.	El Paso	Oppenheim, Charles	El Paso
Morgan, Marjorie	El Paso	Oppenheimer, Jeanne	El Paso
Morrill, Elizabeth D.	El Paso	Orme, Elizabeth Ann	El Paso
Morris, Jack	El Paso	Ormsbee, Dorothy	El Paso
Morris, Margaret	Juarez, Chih., Mex.	Ortega, Esperanza	El Paso
Morris, Nixon	El Paso	O'Sullivan, Helen B.	El Paso
Morse, Mrs. Alberta	El Paso	Owen, Betty Ruth	Fabens
Moses, Lyndon	El Paso	Owen, Garry	El Paso
Mott, Robert H.	El Paso		
Mowad, Abe James	El Paso	Paden, Frank E., Jr.	El Paso
Mowad, Alfred	El Paso	Page, Dorothy Lee	Fort Bliss
Mowad, Phillip	El Paso	Palafox, Fernando	El Paso
Moyaert, Aime J.	New York, N.Y.	Palafox, Lillian	El Paso
Mueller, Betty	El Paso	Palmer, Lee	Lexington, Ky.
Mueller, Charlotte Alice	El Paso	Pangburn, Conchita	El Paso
Mueller, Jerry	El Paso	Parham, Ralph W.	El Paso

Parker, Claire	El Paso	Rapp, John R.	El Paso
Parker, Fred D.	El Paso	Rascon, Vincent P.	El Paso
Parrish, Joe K.	El Paso	Rayon, Susanna V.	El Paso
Partearroyo, Carmen	El Paso	Redic, Jack	El Paso
Partearroyo, Cecilia	El Paso	Redman, Frank	El Paso
Patrick, Mrs. Ulric B.	Boonton, N.J.	Redman, Robert E.	El Paso
Patterson, Pat	Waco	Redmond, Richard S.	El Paso
Pattison, Diana Lee	El Paso	Regan, Mary Elizabeth	El Paso
Patton, Patricia	El Paso	Regottaz, Janet	El Paso
Paulisen, Lovenia	El Paso	Reid, Robert	El Paso
Peabody, Albert	Anthony, N.M.	Reinhardt, Dorothy	El Paso
Peabody, Myrtle	Anthony, N.M.	Renz, Martha	Lubbock
Pearce, Joan	El Paso	Rey, Joseph J.	El Paso
Pearson, Howard	El Paso	Rey, Paul	El Paso
Peck, Lydia	El Paso	Reyes, Israel	El Paso
Penley, Betty G.	El Paso	Reynolds, Virginia	El Paso
Penley, Howard L.	El Paso	Reynolds, William John	El Paso
Perdue, Pat	El Paso	Rhey, Elizabeth Marie	El Paso
Perez, Luis	El Paso	Rhodes, Geraldine	El Paso
Petersen, Barbara Jeanne	El Paso	Rhodes, Thomas Charles	El Paso
Peterson, Judy	El Paso	Richards, Lucy	Clint
Pharis, Fred	El Paso	Richmond, Lalita	El Paso
Phelan, John A.	El Paso	Ridgway, John G.	El Paso
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Pickel, Maryan L.	El Paso	Riggs, Johnnie	El Paso
Pierce, James Wilson	El Paso	Rigney, James	El Paso
Pillow, D. L.	El Paso	Rinehart, Mrs. Clinton	El Paso
Piper, Bette Grace	El Paso	Rivas, Graciela	El Paso
Pittman, Clinton D.	Ackerman, Mo.	Rivera, Mary Ellen	El Paso
Pixley, Della Mae	El Paso	Rivero, Velia	El Paso
Plumbley, Harry Lee	El Paso	Roberts, Stella Lou	El Paso
Poague, Ann B.	Dallas	Robinson, Alfred C.	El Paso
Ponder, Helen F.	El Paso	Robinson, Finley	El Paso
Ponsford, Kathryn	El Paso	Robinson, John V.	El Paso
Pool, Glen L.	El Paso	Robinson, Leland C.	El Paso
Porter, Tommie Dean	El Paso	Robinson, Marjorie	El Paso
Portillo, Bertha	El Paso	Rodarte, Alejandro	El Paso
Portillo, Stella	El Paso	Rodarte, Josephine	El Paso
Potter, Doris Sue	El Paso	Rodriguez, Carlos	El Paso
Pouncey, Peggy L.	Fort Stockton	Rodriguez, Jesus	El Paso
Prade, Frank C.	El Paso	Rodriguez, Paul	El Paso
Prentiss, Mary Jane	El Paso	Rodriguez, Santiago	El Paso
Price, Dick	El Paso	Rogers, Charles	El Paso
Price, Martha Jane	El Paso	Rogers, Elizabeth	El Paso
Pritchard, Roy Lee	El Paso	Rogers, Marian	El Paso
Pronger, Norman	El Paso	Romay, Ricardo	Juarez, Chih., Mex.
Provencio, Lillian	Anthony, N.M.	Romero, Enrique	Juarez, Chih., Mex.
Provencio, Roberto J.	Juarez, Chih., Mex.	Romero, Isela	El Paso
Puente, Victor	El Paso	Romney, Cherie Beth	El Paso
Pytcher, Jack R.	El Paso	Romo, Lillian	El Paso
Rainey, Helen	El Paso	Rosales, Ruben	El Paso
Ramirez, Fernando	El Paso	Rosas, Federico	El Paso
Ramke, Elise	El Paso	Rosenbaum, Mervin	El Paso
Rand, N. Patrick	El Paso	Rosenthal, Helen	El Paso
Randal, William E.	El Paso	Roth, Dover	El Paso
Randel, Maggie	El Paso	Roth, Milton	El Paso
Rapier, Betty Rose	El Paso	Rowan, Betty A.	El Paso
		Rowe, Elizabeth	El Paso
		Ruebush, Theo	El Paso

Ruiz, Crispin	El Paso	Smith, Dorothy	El Paso
Rumbelow, Arthur Ray	El Paso	Smith, Eloise B.	El Paso
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Russell, Rita Faye	El Paso	Snowden, Edith	El Paso
Ruth, Henry Earl	El Paso	Sookiasian, Abraham	
Rutter, Dorothy T.	El Paso		Juarez, Chih., Mex.
Ryan, Helen	Fabens	Sord, Bill	West
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Sada, Daniel R.	El Paso	Soto, Alberto	El Paso
Sadler, Gloria	Weatherford	Soto, Carlos O.	El Paso
Sadowsky, Julius	El Paso	Soto, Raquel	Ysleta
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Salcido, Augustine	El Paso	Springer, Mary	El Paso
Salem, A. Fred	El Paso	Stafford, Grace	El Paso
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Sampson, Bill	El Paso	Stallings, Lena	Otis, N.M.
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Scoggins, Harold E.	El Paso	Strauss, Mrs. Hazel	El Paso
Scott, Louis Allen	El Paso	Stuart, Robert Ross	El Paso
Scott, Walter G.	El Paso	Suhler, Robert A.	El Paso
Scrimshire, Everett N.	Ysleta	Sullivan, Charles Lee	Big Spring
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Shamaley, John A.	El Paso	Tapper, Ruby P.	El Paso
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Skees, William	El Paso	Taylor, Norman L. III.	El Paso
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Smith, David	Pecos	Thoeny, Mrs. O. W.	El Paso

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Tillman, Shirley	Kansas	Weaver, Vinnie	El Paso
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Tompkins, Alex	El Paso	Webb, Thomas	El Paso
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Uzeta, Martha	El Paso	White, Josephine H.	El Paso
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Valencia, Joe I.	El Paso	White, Peggy	El Paso
Valentino, Anna B.	El Paso	White, Wilma	El Paso
Valentino, Lucy	El Paso	Whitney, Laurence R.	Iowa
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Varela, Aurelia	El Paso	Williams, Oscar W.	El Paso
Vargas, Elvira	El Paso	Williams, Paul Clay	El Paso
Vargas, Jorge R.	El Paso	Williams, Thomas J.	El Paso
Vasquez, Alejandro	El Paso	Williss, Marilyn	El Paso
Vasquez, Estela	El Paso	Wilson, Jay Paul	El Paso
Vicksell, Jean	Berwyn, Ill.	Wilson, Woodrow L.	El Paso
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Vines, Cora M.	Kentucky	Womeldorf, Eugene, Jr.	El Paso
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Wall, Alice Nan	El Paso	Wright, Ema Delle	El Paso
Wallace, Ethel	El Paso	Wright, Frances	El Paso
Walsh, Jane W.	El Paso	Wyler, Karl O.	El Paso
Walsh, Louise	El Paso	Yearwood, Truth	El Paso
Walters, Dorothy	El Paso	Yip, Elisa	El Paso
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Ward, Texas S.	El Paso	Young, Eddie Mae	El Paso
		Young, James	El Paso
		Zink, Larry	El Paso

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Summer Session, 1946

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Abraham, Blanche J.	Azar, Phillip	El Paso
Abraham, Nazry		
Acosta, Ramon	Bacon, Judith M.	El Paso
Acebo, Laura Lucia	Bailey, Jennie O.	El Paso
Adams, Agnes	Balderas, David	El Paso
Adams, O. P.	Baldwin, Willie	El Paso
Adams, Vahn	Ballard, Harold N.	El Paso
.....Johnson City	Banks, Mary Ella	El Paso
Adams, Winona Mae	Banks, Mary Etta	El Paso
Adkins, Albert Samuel	Banner, James Ralph	El Paso
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Aguirre, Angel Alex	Barlow, Emily	El Paso
Aguirre, Luis E.	Barrios, Xavier O.	El Paso
Alarcon, Flora .....	.....San Elizario	
Alarcon, Arthur E. ....	.....El Paso	
Alers, Perry B.	Barton, Mrs. May W.	El Paso
Alexander, Emmie Jane	Bauman, Barbara	El Paso
Alexander, Marion B.	Bayliss, Virginia	El Paso
Allen, John B.	Beahler, Lee	El Paso
Almack, Jack Jess	Bean, Cecil S.	El Paso
Altus, Frank	Beebe, Milford H.	El Paso
Alvarado, Miguel	Beeman, Robert A.	Phoenix, Ariz.
Alvarado, Rodolfo	Bell, Howard	Valentine
.....Chihuahua, Chih., Mex.	Bell, Madeline Ann	Wink
Alvarez, Antonio	Beltran, Antonio	El Paso
.....Juarez, Chih., Mex.	Beltran, Manuel, Jr.	El Paso
Alvidrez, Jose	Bemis, Robert Eugene	El Paso
Alvidrez, Margarita	Benavides, Domingo P.	Brownsville
Amos, Betty Jean	Benner, Patrick Henry	El Paso
Anaya, Robert	Bennetts, Nancy M.	El Paso
Anderson, Charles C.	Benton, Milton Lewis	El Paso
Anderson, Eugene M.	Berumen, Humberto	El Paso
Anderson, Katherine A.	Bethany, John	El Paso
Anderson, Norma M.	Bethea, Ruby Lee	El Paso
.....Lansing, Mich.	Bickler, Betty Jane	Elgin, Ill.
Anguiano, Ruben T.	Bickley, Roberta Jean	El Paso
Ansara, Leonie	Billings, Jack	El Paso
Ansara, Shokray	Bilodeau, Joseph A.	El Paso
Appledorf, Norma Rae	Binney, Ella L.	El Paso
Ares, Kenneth G.	Birchfield, William F.	El Paso
Arguelles, Fernando	Bittick, T. W.	El Paso
Armendariz, Alberto	Black, William A.	El Paso
Armendariz, Cesar	Blakely, Evan B.	El Paso
Armijo, Gabriel S.	Blakemore, Marcelle	El Paso
.....Magdalena, N.M.	Blanco, Javier	El Paso
Armstrong, Nancy Ann	Bland, John H.	El Paso
Arnold, G. W., Jr.	Bland, William F.	El Paso
Arnold, Jack O.	Blumenthal, John	El Paso
Arnold, Thomas W.	Bockoven, John Claude	El Paso
.....Amarillo	Bohlin, Charlotte F.	El Paso
Aronson, Albert Allan	Bombach, Carlos D.	El Paso
Aronson, Howard A.	Bonaguiddi, Loraine	El Paso
Arredondo, Armando E.	Boone, Isola	El Paso
Arredondo, Willie		
Arriola, Sergio		
Arroyo, Ernesto		

Booth, Bernard Joe	El Paso	Calamia, Joe	El Paso
Booth, Robert H.	El Paso	Calderon, Juventino A.	El Paso
Borders, Margaret Ann	El Paso	Camp, Fannie	El Paso
Borschow, Julian A.	El Paso	Campbell, Elizabeth	El Paso
Borschow, Paul	El Paso	Campos, Jose	El Paso
Boswell, Malcolm H.	El Paso	Cantrell, E. Lawrence	El Paso
Botello, David J.	El Paso	Carameros, Alex H.	El Paso
Botello, Ofelia	El Paso	Carameros, George D.	El Paso
Bothwell, Robert	El Paso	Cardon, Joseph Wayne	El Paso
Bowden, Jimmy	El Paso	Carpenter, Sharley	El Paso
Bowling, Lois	San Elizario	Carr, J. F.	El Paso
Bowington, Robert	El Paso	Carr, Virginia	El Paso
Boylan, Natalie	El Paso	Carrera, Yvonne	El Paso
Brackus, Richard Paul	El Paso	Carrillo, Alejandro	
Bradford, Carey Joe	El Paso		Juarez, Chih., Mex.
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Bradley, William Robert	El Paso	Casavantes, Alberto A.	El Paso
Brand, Clara Stewart	El Paso	Casavantes, Luis	El Paso
Brand, Irwin	Laurelton, N. Y.	Casillas, Rodolfo	El Paso
Braun, Dolores	El Paso	Casner, Edward H.	El Paso
Braxton, Kenneth W.	El Paso	Casner, Mary Ellen	El Paso
Breaker, James F.	Clint	Cason, Carroll C.	El Paso
Bremer, Manuel		Casso, Thomas Alfred	El Paso
	Chihuahua, Chih., Mex.	Castillo, Victor	El Paso
Brennan, Ann C.	El Paso	Cauble, Frank E.	El Paso
Breton, Armand	El Paso	Causey, Barbara	El Paso
Brey, Fromona	El Paso	Chaffee, Rowand	El Paso
Brieden, Raymond R.	El Paso	Chandler, Elizabeth	Austin
Briggs, Eugenia G.	Clint	Chaparro, Henry	El Paso
Briones, Armando	El Paso	Chaparro, Miguel	El Paso
Brooks, Fred	El Paso	Chapman, John B.	El Paso
Brown, Anita F.	El Paso	Chappell, Sally	El Paso
Brown, Augusta L.	Alpine	Chappell, Mrs. Phil E.	El Paso
Brown, Clarence	El Paso	Charles, Herman E.	El Paso
Brown, Felice Faith	El Paso	Chavez, Antonio	El Paso
Brown, Jackson B.	El Paso	Chesak, William R.	El Paso
Brown, Lyle M.	El Paso	Chew, Fred	El Paso
Brown, Mrs. Lynn Rude	Alpine	Chew, Gloria	El Paso
Brown, William E.	Pine Bluff, Ark.	Clark, Doris R.	El Paso
Browne, Robert F.	El Paso	Clark, Howard D.	El Paso
Brownlow, Joe L.	El Paso	Clark, Hubert	El Paso
Brunette, William Terry	Crane	Clark, Tracy P.	El Paso
Bullard, Edwin R.	El Paso	Clark, Victor J.	El Paso
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Burdick, Byrd	El Paso	Cody, James Edmund	El Paso
Burleson, John	El Paso	Coffin, Charles	El Paso
Burleson, Lewis	El Paso	Coffin, James	El Paso
Burton, Martha E.	Baltimore, Md.	Cole, Hattie Ruth	Artesia, N. M.
Bustamante, Robert	El Paso	Collier, Osmond H.	El Paso
Buttram, Harold		Collier, Robert E.	El Paso
	Oklahoma City, Okla.	Collins, Arthur Q.	
			Chihuahua, Chih., Mex.
Caballero, Leopoldo		Collins, Hamilton	El Paso
	Chihuahua, Chih., Mex.	Collins, James Spencer	El Paso
Caballero, Margarita	El Paso	Conaway, Ella	El Paso
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	Juarez, Chih., Mex.	Conger, Thomas D.	El Paso
Cairns, Shirley H.	El Paso	Conrath, Bill	El Paso

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Cooley, Charles M.	El Paso	Duffus, Patricia	El Paso
Coombes, William	El Paso	Duncan, Jerry Jean	El Paso
Cooper, Delphine	El Paso	Dung, Kwong	El Paso
Coppenbarger, Paul R.	El Paso	Durham, Ruth	Wichita Falls
Corbin, Marilyn	El Paso	Durr, Mrs. Grace M.	El Paso
Cordova, Gabriel	El Paso	Dwyer, Alice L.	El Paso
Cordova, Miguel	El Paso	Dwyer, Sam J.	El Paso
Cornwall, Billy	El Paso		
Cortazar, Oscar	El Paso	Eckhardt, Alvina	El Paso
Cotton, George	Palestine	Edmondson, Charles Ray	El Paso
Council, Mary Alice	El Paso	Edwards, George H.	El Paso
Covington, Robert	El Paso	Edwards, Robert W.	El Paso
Crawford, Charlotte L.	El Paso	Egbert, Orville E.	El Paso
Cretarola, Nella	El Paso	Ehmann, F. Alan	El Paso
Crockett, Miriam H.	El Paso	Ehrenstein, Simon	El Paso
Crosby, Charlie	El Paso	Elliott, David	El Paso
Crosby, Dolly B.	El Paso	Elliott, James F.	El Paso
Crow, Alexander	El Paso	Emery, Waldo	El Paso
Crowe, Edward E.	El Paso	Erickson, Arthur	El Paso
Crump, Dolores Jean	El Paso	Escareno, Rigoberto	El Paso
Crump, William Irwin	El Paso	Escobar, Ben Antonio	El Paso
		Escobar, Jose	El Paso
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Daly, Roland	Presidio	Esparza, Lupe	El Paso
Damon, Arthur	El Paso	Espinosa, Juan	El Paso
Davenport, James D.	El Paso	Estes, John Howard	El Paso
Davidson, Frances Mary	Clint	Evans, Darrell K.	El Paso
Davis, Bertram E.	El Paso	Evans, Ethel Belle	El Paso
Davis, Bill C.	El Paso	Evans, Raymond	El Paso
Davis, John Wesley	El Paso	Evarts, William	El Paso
Davis, Richard Lee	El Paso	Ewin, Martha	El Paso
Davis, Thelma Lee	Sierra Blanca		
Davis, Tom F.	El Paso	Fager, James A.	El Paso
Dean, Hal	El Paso	Fager, Helen Jane	El Paso
Deane, Peyton H.	El Paso	Fairley, William Lester	El Paso
De Groat, Jimmie	El Paso	Farlow, Byron J.	El Paso
Dehlinger, Ross W.	El Paso	Farlow, William C.	El Paso
de la Garza, Carlos J.	Juarez, Chih., Mex.	Farrell, H. C.	Temple
		Favier, Victor E.	El Paso
Delany, Helen Eliz.	El Paso	Fedunak, Alex	El Paso
Delgado, Sister Agnes	El Paso	Fellows, Ralph H.	Frederick, Md.
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Denton, George	Clint	Fernandez, Carlos A.	El Paso
Deputy, Kent	El Paso	Fernandez, Rafael	El Paso
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De Witt, William G.	El Paso	Fields, Guy N.	Clint
De Zavala, Lawrence K.	El Paso	Fields, Helen E.	Clint
Diaz, Rene	El Paso	Fisher, Lovella S.	El Paso
Dickinson, George C.	El Paso	Fisher, Robert	El Paso
Dodson, Barbara Ann	El Paso	Fisher, Robert B.	El Paso
Dolezal, Paul R.	El Paso	Fisk, Bradley	El Paso
Douglass, Mary Louise	El Paso	Fisk, Roy C.	Tucson, Ariz.
Downey, Caryl Hill	El Paso	Fitzgerald, Dewey E.	El Paso
Downey, Joseph Marshall	El Paso	Fletcher, Mary	El Paso
Drake, Janet	El Paso	Fletcher, Richard E.	El Paso

Flores, Armando	El Paso	Grant, William C.	El Paso
Flores, Elvira	El Paso	Gras, Harold	El Paso
Flores, Victor	El Paso	Grattan, Wilna	El Paso
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Folsom, Maude W.	El Paso	Graves, Robert D.	El Paso
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France, J. C.	El Paso	Griffith, John Robert	El Paso
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Franev, Victor E.	El Paso	Guereca, Ross A.	El Paso
Frank, Betty Ann	Houston	Guevara, Francisco A.	El Paso
Frank, Margaret	Houston	Gumaer, Ann	El Paso
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Freeman, Josephine C.	El Paso	Gutierrez, Jose A.	El Paso
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Fuller, Benny	El Paso	Hammett, Georgiana	El Paso
Funk, Flora Alice	El Paso	Hampton, Henry Glenn	El Paso
		Hamrah, Joe	El Paso
Gade, Thor G.	El Paso	Harden, Daniel	El Paso
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	Wailuku, Maui, T.H.	Harris, Ann	El Paso
Gandara, Ignatius L.	El Paso	Hart, Marvin	El Paso
Garbern, Daniel	El Paso	Hart, Mary Gloria	El Paso
Garcia, Francisco J.	El Paso	Hartman, Berthold A.	Gillett
Garcia, Narciso	El Paso	Hartman, Helen K.	Karnes City
Garcia-Nunez, Emilia	El Paso	Harttrick, Louise P.	El Paso
Garner, Ralph	Alamogordo, N.M.	Hartzog, Lewis	Pampa
Gaspar, Lester	El Paso	Hatfield, Rolland Duane	El Paso
Gates, Doris	El Paso	Hayes, Elbert Ed.	El Paso
Gaume, Dorothy N.	El Paso	Hayne, Samuel G.	
Gibbe, C. Frederick			Juarez, Chih., Mex.
	Chihuahua, Chih., Mex.	Haynes, John F.	Waco
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Gorman, John J.	El Paso	Hickerson, Gloria	El Paso
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Rodarte, Josephine	El Paso	Scott, Betty	El Paso
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 Bean, Willis R. 708 N. Copia St.
 Bearden, Kenneth Milton Benedict Hall
- Bearden, Maurice 2212 Montana
 Bedingfield, Annie 2931 San Diego
 Beebe, Milford Henry 214 W. Rio Grande St.
 Bell, Ellyn 1820 Montana, No. 9
 Bell, Howard Benedict Hall
 Bell, James E. 2504 San Diego
 Bell, Lillian Frances 4105 Cambridge
 Bell, Madeline Ann Worrell Hall
 Bell, Roger 2504 San Diego
 Bell, Rose Marion 917 E. Rio Grande St.
 Beltran, Antonio 514 S. Park St.
 Bemis, Robert E. 609 Mississippi
 Benavides, Domingo P. 108 W. Nevada St.
 Bencomo, Julia Rose 505 E. River St.
 Benitez, Martha Hotel Dieu
 Benner, Patrick Henry 3605 Montana
 Bennett, Jules 2831 Lebanon
 Bennetts, Nancy 4100 Bliss St.
 Bennis, Valerie 1117 E. Kerbey
 Benton, Marlin D. 2814 N. Piedras St.
 Benton, Milton Lewis 2814 N. Piedras St.
 Berkeley, Ralph Gordon 1911 N. Kansas
 Berryhill, Bill 3025 Richmond St.
 Berryhill, Chester 3721 Memphis
 Bertrand, Marylyn N. 211 E. Missouri St.
 Berumen, Humberto 720 S. Stanton St.
 Bethea, Ruby Lee 2005 Montana
 Beys, Anne 2617 Pershing Drive
 Bickler, Betty Jane Worrell Hall
 Bickley, Roberta Jeanne 2908 Federal
 Bienemann, William John 2931 San Diego St.
 Bigelow, Roy Vincent 4320 Oxford
 Biggers, Averil Worrell Hall
 Bilderback, Jessie 1523 N. Copia St.
 Bilderback, Norma Jean Hotel Dieu
 Billing, Jack, Jr. P.O. Box 506
 Bilodeau, Frances 4205 Chester
 Bittick, T. W. 3903 Chester St.
 Black, James Harris Box 63, Fabens, Texas
 Black, William A. 910 N. Oregon St.
 Blackwell, William E. 2719 Silver St.
 Blake, Robert Neal 610 River St.
 Blakely, Evan Bascom, Jr. 2430 Federal

Blanchard, Kate Priestley.....	3603 Idalia St.	Braun, Dolores.....	Country Club Rd.
Blanco, Hector.....	3821 Montana St.	Braxton, Kenneth.....	Rt. 37, Box 113B
Blanco, Javier.....	3821 Montana St.	Breaker, J. F.....	1509 N. Mesa Ave.
Blanco, Laura.....	3821 Montana St.	Bremer, Charles.....	1409 Mundy Ave.
Bland, John Herbert.....	Rt. 42, Box 613	Bremer, Manuel.....	1409 Mundy Ave.
Bland, William F.....	Rt. 42, Box 613	Breton, Armand L., Jr.....	2311 Silver St.
Blea, Jacob, Jr.....	105 E. Missouri St.	Bride, Delta M.....	Rt. 42, Box 74
Blount, Branton Boyd.....	912 W. Vandell Blvd.	Bridges, Kenneth John.....	2856 Grant Ave.
Blumenthal, John Bernard.....	712 Baltimore	Bridler, William Norman.....	3709 Memphis St.
Bockoven, John O.....	3127 Montana St.	Brieden, Raymond.....	3800 Hueco
Boebinger, Robert William.....	30 Franklin Road	Brinkmann, Joyce Ann	Ysleta High School
Bohmfolk, Erwin.....	3001 Lebanon	Briones, Armando Luis.....	600 N. Campbell St.
Bolling, Philip.....	322 W. Missouri	Britton, Jack.....	1216 N. Mesa
Bomback, Carlos.....	3137 Pera St.	Broadhead, Betty Jean.....	2724 Grant Ave.
Bonorden, Marie S.....	4323 La Luz St.	Brockmoller, William Earl.....	514 N. Mesa Ave.
Booker, Mrs. Joseph B.....	1001 Galloway	Bromfman, Joseph.....	4020 Leavell St.
Booth, Bernard Joe.....	2530 Grant Ave.	Brooks, Bruce.....	1209 N. Oregon
Booth, Robert H. W.....	2530 Grant Ave.	Brooks, Fred H.....	3720 Chester
Borrego, Francisco.....	1211 E. Missouri St.	Brosnahan, Helen de Salme.....	1215 Rimroad
Borschow, Julian Albert.....	517 Cincinnati St.	Brown, Anita F.....	1211 Mesita
Borschow, Paul Irving.....	517 Cincinnati St.	Brown, Clarence W., Jr.....	1701 Rampart
Boswell, Malcolm Hardy.....	3425 Morehead	Brown, Edward H., Jr.....	2809 Savannah
Botello, David J.....	1509 N. Mesa	Brown, Felice.....	Rt. 2, Box 124
Bothwell, Nina Lou.....	3621 Altura Blvd.	Brown, Frederick.....	1015 N. El Paso, Texas
Bothwell, Robert Winston.....	3621 Altura Blvd.	Brown, Hilton A.....	Rt. 2, Box 124
Bourjaily, Ernest.....	523 N. Campbell St.	Brown, Jackson B.....	4111 Frankfort
Bowden, Jimmy.....	College	Brown, Joseph R.....	Benedict Hall
Bowden, Jocelyn Jean.....	P.O. Box 3057, Sta. A	Brown, Lyle M.....	519 Prospect Ave.
Bower, Mary Frances June.....	Box 478, Rt. 1	Brown, Regina Elizabeth.....	1701 Rampart
Bower, Patricia.....	Box 478, Rt. 1	Brown, Riley Nolan.....	2427 San Diego
Bowington, Frances M. Wright.....	915 Williams	Brown, William Edward, Jr.....	Benedict Hall
Bowington, Robert J.....	915 Williams St.	Brownlow, Joseph L.....	1406 Arizona
Bowling, Lois.....	San Elizario, Texas	Bruce, Clifford L.....	Brunette, William Terry.....
Bowman, Billy Gene.....	2908 Federal	.....	Benedict Hall
Box, Tommy.....	4111 Hastings	Brusoe, Mary Ann.....	1224 Butterfield
Boyd, Quinn Gordon.....	1100 N. Stanton	Bryan, Joan M.....	The Westerner Inn
Boylan, Jack.....	1131 Galloway	Bryson, Beth.....	2314 Silver
Boylan, Natalie.....	1131 Galloway	Buckner, Joanne.....	1101 Baltimore
Braden, Frances T.....	3904 La Luz	Buehler, Mary Frances.....	1208 N. Stevens
Bradford, Phyllis Ann.....	507 W. Missouri St.	Buffington, George.....	2313 Montana
Bradley, A. C.....	2808 Grant Ave.	Buhler, Betty Rose.....	905 N. Octavia
Bradley, Rachel S.....	2808 Grant Ave.	Bulger, Ona Pearl.....	3500 Monroe
Brand, Clara S.....	164 Collingsworth	Bullard, Edwin Robert.....	2704 Louisville
Brand, Irwin.....	2211 N. Stanton	Bullington, Tom.....	2704 Wheeling
Brann, Patricia.....	3227 Lebanon		

- Bunner, Dorothy _____
 _____ 1523 E. Rio Grande
- Burchell, Helen Duffy 3825 Towbridge
- Burciaga, Jose Hector P.O. Box 717
- Burdick, Byrl Hunt, Jr. _____
 _____ 1215 N. Stanton
- Burge, Mabel _____ 3617 Montana
- Burnett, Catherine F. _____ 2002 Detroit
- Burns, Nancy _____ 2411 N. Stanton
- Burnstein, Norma Lee Worrell Hall
- Bush, Mary Jane _____ 1013 Montana
- Bustamante, Roberto _____
 _____ 1305 E. Rio Grande
- Butler, Clara Belle _____ 3503 Altura
- Buttram, Harold _____ Football Bks.
- Byars, David D. _____ Benedict Hall
- Bynum, Ferris L. _____ 4203½ Chester
- Byrnes, Ted _____ 2119 N. Mesa Ave.
- Caballero, Leopoldo _____
 _____ 614 Prospect Ave.
- Caballero, Margarita _____
 _____ 1212½ N. Campbell
- Cabrera, Fermin T. _____
 _____ Hipodromo 1208, Juarez, Chi-
 huahua, Mexico
- Calamia (Campbell) Geraldine _____
 _____ 214 W. California
- Calamia, Joe _____ 214 W. California
- Calderon, Juventino H. _____
 _____ 503 S. Florence
- Calderon, Rafael F. _____
 _____ 1001 N. Campbell
- Calisher, Barbara Louise _____
 _____ 919 Robinson
- Camp, Wayne _____ Football Bks.
- Campbell, Elizabeth D. _____
 _____ 1405 E. Missouri St.
- Campbell, Ottis Wm. _____
 _____ Box 96G, Awbrey Road
- Campos, Jose _____ Benedict Hall
- Candelaria, Celia _____ Hotel Dieu
- Cantillon, Richard Michael _____
 _____ 11610 Bellogio Rd., West Los
 Angeles, Cal.
- Cantrell, Clair Louis, Jr. _____
 _____ 2115 Washington
- Cantrell, Lawrence E. _____ 1155 Elm St.
- Cantrell, Margaret _____ 1115½ Terrace
- Carameros, Alex H. _____
 _____ 3328 Pershing Drive
- Carameros, George D., Jr. _____
 _____ 3325 Pershing Drive, Apt. D
- Cardenas, Leopoldo _____ 800 N. Copia
- Cardon, Joseph Wayne _____
 _____ 4609 La Luz St.
- Carlin, Ann _____ 1006 Galloway
- Carmona, Juan _____ 703 S. Mesa
- Carnell, Ben H. 1216 N. Mesa, No. 10
- Carper, Eugene T. _____ 166 Hadlock
- Carpenter, Sharley _____ 3814 Fort Blvd.
- Carr, Daisy Louise _____ Clint, Texas
- Carr, Helen Cooke _____ Milner Hotel
- Carranza, Edward _____ Benedict Hall
- Carraway, Nelson _____
 _____ Box 66, Glenwood Dr.
- Carreon, Arturo _____ 2222 Bassett
- Carrera, Emily Yvonne _____ 3605 Jackson
- Carrillo, Alejandro Raoul _____
 _____ Mejia 707, Ot, Juarez, Chihuahua,
 Mexico
- Carson, Robert L. _____ 1217 N. Brown
- Cartan, William Joseph _____
 _____ 903 Park Road
- Carter, Martin L., Jr. _____
 _____ 4605 La Luz St.
- Carter, Uley G. _____ 1130 Montana
- Cary, Martha Ann _____
 _____ Qts. 949, Ft. Bliss, Texas, Ext.
- Casarez, Joseph Patrick _____
 _____ Rt. 42, Box 150
- Casavantes, Alberto A. _____
 _____ 719 N. Ochoa St.
- Casavantes, Luis _____ 512 Los Angeles
- Cason, Carroll C. _____ 3511 Hueco, No. 4
- Casso, Thomas A. _____ 2917 Mobile
- Castanon, Margarita _____ Hotel Dieu
- Casteel, Wylie E., Jr. _____ 3101 Copper
- Castillo, Caesar _____ 1108 Mesita
- Castillo, Victor Ramon _____
 _____ 313 E. Wyoming
- Castro, Manuel _____ 1800 E. Yandell
- Cates, Robert W. _____ Box 173, Ysleta
- Gates, Roy E. _____ 2807 N. Piedras
- Cates, William Rey _____
 _____ Box 173, Ysleta, Texas
- Cauble, Frank Emerson, Jr. _____
 _____ 6309 Weems Way
- Causey, Barbara Gene _____
 _____ 1009 Park Road
- Cazares, William C. _____
 _____ 710 S. Mesa, No. 9
- Ceniceros, Leo _____ 1203 Arizona
- Chacon, Ralph _____ 1023½ Myrtle
- Chaffee, William E. _____ 3500 Madera
- Chaffer, Myron _____ 3410 Idalia
- Chaffer, Rowand R. _____ 3500 Madera
- Chambers, Emma Lou _____ 3831 Jackson
- Chancellor, Betty _____ Worrell Hall
- Chaparro, Henry _____ 1142 E. Nevada
- Chaparro, Michael _____ 607 N. St. Brain
- Chapman, John B. _____ 3009 Pershing
- Chapman, Maggie _____ 3609 Bisbee
- Chappell, Mrs. Arvalde _____
 _____ 1817 N. Piedras

Chappell, Phil Edward.....	1817 N. Piedras	Condley, Phyllis Dorreen.....	2931 Savannah
Chappell, Sara Bele.....	1311 E. California	Cone, Margaret Ann.....	2816 Copper
Chavez, Antonio.....	3103 Findley	Conger, Tommy D.....	3112 Nations
Chavez, Maria Luz.....	Hotel Dieu	Connors, Eliz. Ann.....	1100 N. Ochoa
Chavez, Monserratt.....	511 S. Virginia	Conrath, Otto Wm., Jr.....	127 S. Maryland
Chavez, Tom.....	Trailors	Cook, Frances L.....	3528 Ft. Blvd.
Chernin, Corinne Ann.....	1820 Montana	Cook, Glen A.....	1309 W. Missouri
Cherry, John D., Jr.....	3418 Nations	Cook, Jan.....	Rt. 42, Box 982
Chesak, Kenneth L.....	4321 Cumberland	Cooley, Charles Milton.....	2301 Gold
Chesak, Robert R.....	800 Cincinnati	Coombes, William D.....	Sunrise Acres
Chinn, Robert L.....	4417 Oxford	Cooper, Delphine N.....	1918 Montana
Chriss, George.....	808 N. El Paso	Coppenbarger, Paul Rogers.....	1012 Wyoming
Christo, Sam, Jr.....	Trailers	Coppinger, Dorothy.....	2800 Grant
Cisneros, Guillermo.....	1010 N. Kansas	Corbin, Marilyn.....	4004 Oxford
Clark, Howard Dewzell.....	2701 Elm	Cornwall, Billy.....	Rt. 37, Box 113B
Clark, Hubert O.....	3321 Montana	Cortazar, Oscar.....	4100 Hastings
Clark, Nolan.....	1401 N. Kansas	Cousar, Mrs. May.....	1114 Arizona
Clark, Tracy P.....	Benedict Hall	Covington, Margaret Ella.....	3224 Louisville
Clark, Victor J.....	College	Covington, Robert O.....	3224 Louisville
Clemens, Laura Ellen.....	Box 388	Cowart, Dan Couch.....	4019 Cumberland
Clyne, Duane.....	1502 N. Florence	Crackel, Mary Jean.....	Hotel Dieu
Coates, Hugh Burton.....	1117 Robinson Blvd.	Crawford, Margaret Kath.....	Worrell Hall
Coats, Lois Meryl.....	Qts. 12, Fort Bliss	Crockett, Miriam Henryetta.....	1706 Rampart
Cobb, Alfred L.....	1110 Mesita	Crosby, Charles P.....	Rt. 2, Box 430
Cobb, Pruitt Busby.....	1110 Mesita	Cross, William C.....	204 Smelter Terrace
Cochran, Alan K.....	607 E. Rio Grande	Crow, Alexander.....	3926 La Luz
Cody, James Edmund.....	2706 Wheeling	Crowe, Edward E.....	301 E. River
Coffin, Charles.....	1801 E. Nevada	Crowley, Burnett.....	3301 E. San Antonio
Coffin, James.....	1801 E. Nevada	Crowley, Michael J., Jr.....	College
Cohen, David.....	1329 Cincinnati	Crumbless, Patty.....	315 E. Franklin
Cole, Esta Mattie.....	2106 Magoffin	Crutcher, James A.....	Trailer Camp
Cole, Julian Francis.....	3212 Pershing Drive	Crye, Helen M.....	3821 Nashville
Cole, Phillip.....	3605 Altura Blvd.	Cuellar, Ramiro.....	Tlaxcala No. 103 Pte. Juarez
Cole, Lena C.....	3209 Memphis	Cuen, A. N.....	1122 Montana
Cole, Ruby.....	3209 Memphis	Culp, John Ann.....	1211 N. Campbell
Coleman, Robert H.....	3722 Tularosa St.	Culp, Roy Omer.....	1211 N. Campbell
Collazo, Oscar H.....	Ave. Vicente Guerrero 807, Juarez, Chih., Mex.	Cummings, Alice S.....	3830 Van Buren
Collier, Loy.....	Rt. 37, Box 116B	Cummings, Ruth Clayton.....	3414 Idalia
Collier, Muzette Goldwyn.....	1730 Wyoming	Cundiff, Isaac Wesley.....	710 Dallas
Collier, Robert F.....	2817 Memphis	Dahl, Bertha M.....	3527 Louisville
Collins, Arthur E.....	4227 Bliss	Dakan, Colleen.....	2812 N. Piedras
Collins, Arthur Q.....	4627 Alameda	Dale, Homer Lee, Jr.....	1921 E. Rio Grande
Collins, Ben W.....	Football Dorm.	Daly, Roland E.....	Worrell Hall
Collins, Hamilton.....	2705 Aurora	Damon, Arthur F., Jr.....	1011 Galloway
Collins, James Spencer.....	815 N. Luna	Darr, James Roy.....	3005 Lebanon
Conde, Henry A.....	3000 Magoffin		

Davalos, Moses.....	1508 N. Florence	Dobbs, Richard Lee.....	3827 Frankfort
Davenport, James D.....	225 W. Nevada	Dockray, Grace.....	3426 Hamilton
Davis, Donald Robert.....	4119 Oxford	Dodson, Barbara.....	Rt. 1, Box 143
Davis, John Wesley.....	4100 Oxford	Dolezal, Paul R.....	2626 San Diego
Davis, Maxton.....	1501 E. Yandell	Donaldson, Chloe.....	Anthony, N.Mex.
Davis, Richard Lee.....	4100 Oxford	Douglass, Mary Louise.....	3017 Lebanon
Davis, Tom F.....	1309 N. Campbell	Dow, Wallace.....	910 Blanchard
Davis, William C.....	3223 Ft. Blvd.	Downey, Caryl H.....	907 E. River
Davis, William Vance.....	3412 Louisville	Downey, Joseph M.....	417 W. Yandell, No. 26
Davis, Wymond.....	Barracks	Downum, Shirley Louise.....	904 Maple
Dean, Clinton Harper.....	909 McKelligon	Draeger, Genevieve Mary.....	3705 Mobile
Dean, Hal E., Jr.....	909 McKelligon	Drane, Mrs. Ola Jane.....	Canutillo, Texas
Dean, Helen Mrs.....	1315 Arizona	Drummond, Irene.....	3407 Sacramento
Deane, Peyton H.....	911 N. Raynor	Dudas, Theresa.....	1201 N. El Paso
DeArman, Doyle J.....	908 N. Campbell	Duke, Robert L.....	2922 Savannah
Deaton, Christine P.....	Hotel Dieu	Duke, Rose Elva.....	3505 White Oaks
DeCarmo, John H.....	2215 Silver	Dugan, William Charles, Jr.....	3731 Chester
Dehlinger, Martin Emery.....	709 Noble	Dunagan, Elbert Richard.....	1819 Montana
Dehlinger, Ross Walter.....	3727 La Luz	Duncan, Nancy.....	Ysleta, Texas
de la Garza, Carlos Jorge.....	708 20 de Nov., Juarez, Mex.	Dunlap, Ruth A.....	3508 Hamilton
de la Rosa, Manuel.....	409 S. Kansas	Duran, Alejandro.....	1126 Los Angeles
de la Torre, Carmela.....	705 Crosby	Duran, Elda.....	706 Myrtle
de la Vega, Mary Carmen.....	1610 N. Stanton	Duran, Gilberto Barrios.....	Apdo 82, Juarez, Chih.
Delgado, Aurelio.....	3416 E. San Antonio	Duran, Robert N.....	512 Los Angeles
Delgado, David.....	3125 Frutas	Durham, Ruth Evelyn.....	Worrell Hall
Delgado, Gloria Estela.....	3914 Ft. Blvd.	Durr, Robert E.....	1318 Montana
Delgado, Robert.....	3125 Frutas	Dutton, Robert A.....	810 Winter
del Hierro, Nettie Va.....	2117 Grant	DuVal, William Harold.....	1405 E. Missouri
DeLong, Dean V.....	Y.M.C.A.	Dwyer, Alice L.....	1429 Fewel
del Valle, Carlos Antonio.....	1516 Upton	Dwyer, Sam J.....	503 Fewel
Del Valle, Rosendo David.....	Rt. 2, Box 241	Easter, Mrs. Ada.....	2314 N. Kansas
Del Valle, Salvador.....	1106 Selden	Ecord, Bruce Barley.....	1414 E. Yandell
Denman, Nona Kathleen.....	3023 Aurora	Edens, Roger Russell.....	3616 Nations
Derrick, Anna Jane.....	2523 Nashville	Edmond, Robert.....	800 College
De Santos, Elias.....	Box 45, Smelertown, Texas	Edmondson, Charles Ray.....	2201 Pittsburg
De Soto, John, Jr.....	3415 Alamogordo	Edwards, George H.....	3028 Altura
DeWitt, William Gray.....	813 W. Yandell	Edwards, Terry.....	1717 N. Stanton
DeZavala, Lawrence Kenneth.....	1310 Mundy	Egbert, Orville Edward, Jr.....	3000 Federal
Diaz, Carmen Isela.....	1026 Myrtle	Egger, Oskav Wilhelm.....	1425 Fewel
Diaz, Oscar.....	16 of Sept. y C. Otumba	Ehmann, F. Alan.....	Box 3047, Sta. A
Dickenson, Genevieve.....	3817 Cambridge	Ekery, Gabriel Abraham.....	2011 Arizona
Dickey, John.....	327 W. Missouri	Ellington, Owen Hammock.....	2117 Portland
Dickinson, George Gabriel.....	3001 Idalia	Elliott, David H.....	726 McKelligon
Djerf, John Gust.....	3310 N. Copia	Elliott, James F.....	2403 N. Piedras

Elliott, John Stanley.....	1127 Los Angeles	Fernandez-MacGregor, M.....	501 Los Angeles
Ellison, Robert Frank.....	Benedict Hall, No. 67	Fernandez, Rafael.....	3004 Idalia
Ely, Robert.....		Fernley, George.....	1217 N. Mesa
Emery, Ray Waldo, Jr.....	3615 Pershing	Ferrell, A. E.....	Box 1651
Emmett, Gabriel Thomas.....	2605 Lebanon	Feuille, Edmond G.....	324 W. Missouri
Endlich, Elisa.....	3121 Morehead	Fisher, Robert Blanton.....	1519 N. Kansas
Eppert, Josephine O.....	3504 Hamilton	Fisk, Bradley E.....	3415 Porter
Erickson, Arthur Richard.....	3325 Pershing	Fisk, Roy Clarence, Jr.....	Benedict Hall
Escareno, Rigoberto.....	700 Mundy	Fitzgerald, Dewey E.....	Barracks
Escobar, Benjamin.....	Rt. 42, Box 727	Fitzgerald, Gerald.....	3677 Bishop
Escobar, Jose.....	Rt. 42, Box 727	Flack, Mona Joe.....	610 Wesley Rd.
Esparza, Alejandro G.....	818 N. El Paso	Fleming, Marjorie F.....	1216 N. Mesa
Esparza, Angel F.....	818 N. El Paso	Fletcher, John James.....	1000 Arizona
Esparza, Pablo.....	1518 Mundy	Flores, Armando.....	1729 Wyoming
Espinosa, Juan, Jr.....	716 W. Missouri	Flores, Elvira.....	2930 Magoffin
Esquivel, Aurora.....	Hotel Dieu	Flores, Josephine Dora.....	1309 Rio Grande
Estes, John H.....	1400 N. Oregon	Flores, Louis S.....	Fabens, Texas
Estrada, Leo.....	310 E. Fifth	Flores, Victor S.....	622 N. Estrella
Estrada, Rodolfo.....	3816 Spruce	Flournoy, Eldridge D., Jr.....	3010 San Diego
Evans, Clarence E.....	3604 Jackson	Floyd, Theo Elizabeth.....	212 Montana
Evans, Darrell K.....	1127 N. El Paso	Fogelman, George T.....	2708 Pershing
Evans, Donald R.....		Footo, Sara Bain.....	3325 Hueco
Evans, Keith.....	807 Olive	Ford, James A.....	2319 N. Mesa
Evans, Raymond.....	College	Foret, Mrs. Bell Bacon.....	2709 Portland
Evans, Robert F.....	1605 E. Rio Grande	Foster, H. L., Jr.....	4406 Hueco
Evans, Robert H.....	2212 Montana	Foulks, Clayton.....	3429 Bisbee
Evans, Mary Ann.....	Rt. 2, Box 269	Fox, Carolyn.....	1107 Kelly Way
Evarts, William W.....	3504 Louisville	Fox, Mary Ethel.....	3927 Sacramento
Ewan, Thomas L.....	Benedict Hall	Francis, Betty Rose.....	201 W. Rio Grande
Eylar, Kathleen.....	905 N. Octavia	Francis, Trula.....	201 W. Rio Grande
Eyles, Mamie.....	1524 Upson, No. 5	Franco, Joe.....	3622 White Oaks
Fager, Helen Jane.....	4308 Pershing	Franco, Miguel.....	2919 Frutas
Fager, Jimmy.....	4308 Pershing	Frank, Betty Ann.....	Worrell Hall
Fairbairn, Nina Jewell.....	1114 E. Rio Grande	Frank, Margaret Walton.....	Worrell Hall
Fairley, William Lester.....	3705 Memphis	Frausto, Sixto.....	415 S. Tays, No. 231
Falby, Catherine Frances.....	4420 Hastings	Frazor, Betty.....	2308 Memphis
Farlow, Byron J.....	811 N. Virginia	Freeman, Sterling Bird.....	1012 E. Rio Grande
Farlow, Donald.....	811 N. Virginia	Freeman, Jane Harvey.....	1012 E. Rio Grande
Farlow, William C.....	811 N. Virginia	Freeman, Josephine Cecilia.....	Rt. 42, Box 18E
Farmer, Reba LaVerne.....	3702 Harper	Freeman, Nevin.....	601 E. Nevada
Farquhar, Malcolm.....	1301 E. River	Freiberger, Ruth.....	3730 Sacramento
Farrell, Harry C.....	Trailers	Frentzel, Mrs. W. Y.....	501 Cincinnati
Fedunak, Alex.....	3202 Porter	Fresques, Stella Florence.....	Hotel Dieu
Fellows, Ralph Harold.....	Benedict Hall		
Ferguson, E. Jean.....	417 W. Yandell		
Ferlet, Robin L.....	Worrell Hall		
Fernandez, Carlos A.....	613 N. Ochoa		

Friedman, Carl M.	Goldfarb, Irvin Joseph	1418 Fewel
_____ Rt. 2, Box 307	Gonzalez, Manuel, Jr.	_____
Fritz, William D.	_____ 1305 N. Florence	
Fuentes, Beatrice R.	2723 E. Yandell	Gonzalez, Manuel
Fuentes, C. A.	2723 E. Yandell	1026 Upson
Fuentes, Leonardo, Jr.	_____ 3006 Rivera	
_____ 1418 W. Yandell	Gooden, John	_____ Mesa Courts
Fugate, William Lonnie	Gorman, John J.	1307 N. Kansas
_____ Box 14, c/o College	Goss, Billy	3617 Hueco
Fuller, Larry Lee	Gottlieb, Bernice	1420 N. Ange
Fuller, Margaret	1103 Noble	Gould, Charlie
Furgason, Ellis	_____ College	1210 N. Campbell
Fuselier, J. C.	Rt. 1, Box 319	Gould, Edward Warren
_____ 912 N. Mesa		_____ P.O. Box 360, Anthony, Texas
Gaddy, Burrel Cato	3109 Dyer	Gover, Travis G.
Gade, Thor Gerald, Jr.	_____ 1517 Alta	
Gage, Charles	_____ 510 W. Missouri, No. 31	Gower, Orville E.
_____ 1527 Golden Hill Terrace	Grace, Minnie	4009 Hastings
Galarza, Miguel	712 S. Park	Grado, Gilberto Rodolfo
Galentin, Lawrence J.	3210 Tularosa	3309 Pera
Galloway, Genevieve	Worrell Hall	Grado, Miguel Angel
Gallup, Kenneth W.	Clint, Texas	3309 Pera
Galvan, Robert	1012 Birch	Graf, Kenneth
Camero, Roberto Jose	_____ 1312 E. Third	Graf, Norma Ruth
_____ 610 Montana		2212 Silver
Gamponia, Helen	Worrell Hall	Gramly, Mary Margaret
Gandara, Louis Raymond	_____ 610 Montana	_____ 3925 Trowbridge
_____ 610 Montana	Gant, Charles Lee	Grat, Carlotta
Gandara, Margaret	3515 Jackson	1009 Prospect
Gant, Charles Lee	_____ 405 E. Rio Grande	Gras, Harold William
Garbern, Daniel Y.	657 Upson	1509 Mundy
_____ 148 Noble	Garcia, Francisco Javier	Gratton, Wilna
Garcia-Nunez, Emilia L.	Box 213, San Elizario	Rt. 1, Box 388
Garcia, Francisco Javier	617 Upson	Gravatt, Margaret
Garcia, Jose	709 S. Mesa	3611½ Pershing
Garcia, Narciso	Alamogordo, N.M.	Graves, Arthur E., Jr.
Gardea, Reymundo	2716 San Diego	713 Blacker
Garner, Ralph	Rt. 2, Box 158	Graves, Carroll Ann
Gary, Carolyn Ann	Rt. 2, Box 158	713 Blacker
Gaspar, Lester G.	3932 Dover	Graves, Charles E.
Gaspar, Mary	1005 Mundy	2716 Louisville
Gattis, Fred Hubert	Benedict Hall	Graves, Robert Donald
Gavaldon, Jesse	3222 Tularosa	_____ 2416 San Diego
Gibbe, Frederick	_____ 67 Boone Ave.	Graves, Robert E.
Gietz, Gerald Hugh	Canutillo, Texas	713 Blacker
Gilbert, Jean	Canutillo, Texas	Green, George Sanchez
Gilbert, Robert J.	2721 Mobile	_____ 4306 Trowbridge
Gill, Jack S.	2117 Raynor	Greer, Robert M.
Gillespie, Dorothy	Rt. 42, Box 941	_____ 801 S. Grant, Odessa
Gillett, John Alenson	1507 N. Stanton	Gregory, Frances Ophelia
Glattstein, Ladislav	3823 Cambridge	_____ 625 Prospect
Glass, Roy Irwin	Rt. 2, Box 418	Griffin, Charles Allen
Glass, William	Benedict Hall	3431 Jefferson
Glaze, Frank	1601 N. Stanton	Griffith, John Robert
Glenn, Harry	3029 Savannah	1320 Luna
Goers, Betty Joyce	3014 Aurora	Grounds, Elmer, Jr.
Goff, Marian	800 Arizona	Benedict Hall
Goldberg, Marvin E.	_____	Grounds, George
_____	_____	Barracks
_____	_____	Guereca, Ross Antonio
_____	_____	_____ 67 Boone Ave.
_____	_____	Guernsey, Mildred Burgess
_____	_____	_____ 3604 Hueco
_____	_____	Guevara, Francisco A.
_____	_____	528 Prospect
_____	_____	Guez, Ninette
_____	_____	500 Cincinnati
_____	_____	Gumaer, Ann
_____	_____	1000 Galloway
_____	_____	Gutierrez, Eva
_____	_____	1007 S. Santa Fe
_____	_____	Gutierrez, Frank
_____	_____	Rt. 42, Box 67A
_____	_____	Gutierrez, Genevieve Georgia
_____	_____	_____ 3526 Montana
_____	_____	Gutierrez, Jose A.
_____	_____	624 Prospect
_____	_____	Gutierrez, Manuel B.
_____	_____	_____ Rt. 42, Box 67A

Gutierrez, Teresa.....3526 Montana	Hartman, Berthold A.....
Guynes, Deane.....3211 Altura	.....816 N. Oregon
Haag, George Philip.....	Hartman, Mrs. Helen K.....
.....803 N. Virginia	.....816 N. Oregon
Haas, Herbert W.....3907 Mountain	Hartrick, Louise Patton.....
Habberstad, Dorothy Jean.....	.....3714 N. Kansas
.....4017 Bliss St.	Hartzog, Lewis B.....Benedict Hall
Haddad, Cafa.....717 N. Virginia	Harvey, Eldon Phillips.....1407 Elm
Haggard, James D.....	Harvill, Agnes C.....187, Rt. 42
.....717 W. Yandell Blvd.	Hausenbauer, Edward P.....Barracks
Haggard, William J.....	Hawkins, Frederick Eugene.....Barracks
.....717 W. Yandell Blvd.	Hayden, Samuel F.....3234 Lebanon
Hahn, Ruth Pauline.....	Hayes, Billy C.....4309 Cumberland
.....603 E. Nevada Street	Hayne, Samuel G.....
Haines, Maurice M.....725 W. Main St.	.....Rayon 315, Juarez, Chih.
Hale, Mildred.....Box 578, Ft. Bliss	Haynes, John F.....Benedict Hall
Hale, Robert William.....	Healy, William H.....Rt. 42, Box 181
.....3823 Sacramento	Heasley, Herbert.....809 Newman
Hales, Sarah.....Worrell Hall	Heather, Jack R.....2201 Grant
Hales, James Fountain.....	Heckman, John Robert.....
.....Benedict Hall	.....3113 Memphis
Hallmark, Roe Ellis.....	Heller, Russell M.....910 Blanchard
.....327 W. Missouri St.	Heller, Solomon.....706 College
Hamilton, Mary Ann.....	Hemley, John Julian.....
.....1518 N. Campbell	.....Canutillo, Texas
Hamilton, Robert Louis.....	Hendon, H. L.....50 Glenwood Dr.
.....Benedict Hall	Henry, Willard B.....Trailers
Hamlyn, Mildred Martha.....902 Upson	Hernandez, Arturo.....614 S. Mesa
Hammett, Georgiana.....401 Prospect	Hernandez, Dora.....56F Glenwood Dr.
Hampton, Henry Glenn.....	Hernandez, Isaac.....503 S. Florence
.....1718 Kentucky	Hernandez, Juventino.....
Hamrah, Rosalie.....800 Upson	.....1031 E. Missouri
Haninger, Betsy Ann.....	Hernandez, Rosa Maria.....
.....1500 N. Florence	.....715 N. St. Vrain
Hamlin, Barbara.....Worrell Hall	Hernandez, Tony J.....812 Arizona
Hanlon, David Gordon 1110 Montana	Herr, Richard B.....Benedict Hall
Hanlon, Morton J.....1110 Montana	Herrera, Luis G.....614 Prospect
Hannan, Willimay.....3712 Jackson	Herrera, Raymond.....504 Park
Hardin, Daniel J.....1702 Montana	Hesler, Stella Anne.....
Hardin, Mike O.....2607 McKinley	.....2001 N. Florence
Harding, Eugene.....2731 E. Yandell	Hickerson, Carlos, Jr.....3708 Bliss
Hardy, Mrs. Artie H.....914 Laurel	Hickerson, Margaret Gloria.....
Hardy, Charles Kenneth.....	.....3708 Bliss
.....4030 Oxford	Hickey, Lonita.....Worrell Hall
Harms, Lorene Sue.....2305 Silver	Highsmith, Mary Evelyn.....
Harper, Helen Louise.....2207 Silver	.....Worrell Hall
Harper, Thomas Paul.....2207 Silver	Hill, Barbara Stevenson.....
Harris, Alfred John.....910 N. El Paso	.....1301 Cincinnati
Harris, Ann Louise.....2725 Silver	Hill, Brian Bernard.....1111 N. Cotton
Harris, Flodel.....708 Myrtle	Hill, Carl Eugene.....Box 141, Ysleta
Harris, Lillie Fay.....Worrell Hall	Hill, Frederick James.....
Harris, Percy L.....	.....1301 Cincinnati
.....1215 E. Rio Grande	Hill, James R.....4409 Cambridge
Harris, Robert Glenn.....1318 Myrtle	Hill, Mary Elizabeth.....
Hart, John P.....3016 Aurora	.....805 N. Campbell, No. 9
Hart, Mary Gloria.....4403 Montana	Hillis, Joe Ann.....1910 E. Yandell
	Hintze, William R.....2414 Aurora

Hirsch, John.....	806 Upson	Jackson, Sara E.....	Ysleta, Texas
Hixenbough, Betty.....	2601 Grant	Jacquín, C. Georgina.....	4400 Pershing
Hodges, Ralph W.....	3525 Altura	Jacques, Isela Margaret.....	3501 Idalia
Hodges, Theodore.....	Benedict Hall	Jaffee, Richard Merrill.....	
Hodgkins, Verne.....			3714 Savannah
	910 N. Oregon, Apt. 12	Jarvis, C. D.....	1201 Laurel
Hoffer, Rosemary Elizabeth.....		Jenkins, Don.....	QB 890, Ft. Bliss
	4117 Bliss	Jenkins, Frank.....	601 Blanchard
Hoffman, Elma Louise.....	Worrell Hall	Jenkins, Mrs. Maurine.....	
Holm, Miriam.....	Rt. 2, Box 224		601 Blanchard
Holmes, Gloria Louise.....	3804 Hueco	Jennings, Nancy Ann.....	1023 E. Nevada
Holmsley, Mary Ozelle.....	Worrell Hall	Jennings, Ruth Gail.....	4203 Chester
Hooten, Grace Bull.....	3611 Clifton	Jimenez, Carmen.....	
Hooten, William P.....	603 W. Yandell		Azucenas 817, Juarez, Chih., Mex.
Hoppes, Earl.....		Jimenez, Carolina.....	1927 Arizona
	2916 White Oaks, Apt. 2	Jones, Dorothy M.....	4501 Montana
Horne, Mezick Tracy.....		Jones, Lillie Frances.....	
	3710 Van Doorn		62 Glenwood Drive
Horvath, Joseph Andrew.....		Johnson, Charlie Glen.....	
	718 N. Ochoa		Rt. 37, Box 211
House, Jane.....	Rt. 2, Box 178	Johnson, Lindsey Bernard.....	
House, Milton V.....	Rt. 37, 1st Ave.		1131 E. Yandell
Howard, Preston.....	College	Johnson, Mary.....	1106 Moore
Howell, Theodore Myers.....		Johnson, William E.....	
	4307 Chester		3127 Lebanon St.
Hubbard, Elizabeth Anne.....		Johnston, Wayne L.....	Rt. 1, Box 405A
	Worrell Hall	Jones, Alfred Lamon.....	1806 Arizona
Huerta, Juan.....	3427 Duranzo	Jones, Raymond M.....	4949 Dyer St.
Huffman, Coleman, Jr.....	Barracks	Jorda, Laron Donald.....	Benedict Hall
Hughes, Dewey Clark.....		Joseph, George.....	2911 Louisville
	2818 Pershing	Juen, Leroy Vincent.....	Rt. 37, Box 99
Hughes, Lloyd Alwin.....			
	Anthony, Texas	Karam, Mary Feris.....	2801 Lebanon
Humphrey, Lavender Carl.....		Keffer, Edward Warren.....	
	4121 Hueco		717 St. Vrain
Humphris, Lady Lella.....		Kelly, Ernest.....	Football Brks.
	220 W. Yandell	Kelsey, Clyde.....	3921 Pershing Dr.
Hunter, Carroll Dean.....	2429 Montana	Kemp, Wyndham.....	419 E. California
Hunter, Joyce G.....	2429 Montana	Kennedy, Dorothy H.....	Worrell Hall
Hurd, Charles W.....	2800 Altura	Kent, Robert.....	
Hurlbert, Josephine M.....	Hotel Dieu		c/o Banco Nacional de Mex.,
Hurtado, Manuel.....	907 Park		Juarez, Chih., Mex.
Hutchinson, Robert.....	3925 Polk	Kerr, Crawford Smith.....	2735 Gold
Hyde, Richard R.....	Benedict Hall	Kerr, Sara Jane.....	3415 McKinley
Hynds, Jack.....	820 Mesita	Kersey, Robert Lee.....	4015 Hastings
		Kessel, Julian Martin.....	
Ibanez, Fernando Arturo.....	4614 Albro		3503 Pershing Dr.
Ibarra, Rafael B.....	904 Tays	Key, John.....	2009 Grandview
Ince, Kathryn B.....	1717 Dakota	Kidd, Norman Milton.....	2117 Portland
Ingram, William.....	3015 Altura Blvd.	Kinard, Paul.....	400 W. College
Irby, Travis Leslie, Jr.....		King, Charles Richard.....	Campus
	4000 Hastings	King, Erwin E.....	2854½ Pershing
Ives, Charles Robert.....	2119 N. Mesa	King, Henry M.....	327 W. Missouri
Ivey, Rosalie.....	St. Regis Hotel	King, Robert P.....	
Izquierdo, Mike.....	2103 N. Mesa		1125 Robinson Blvd.
Izquierdo, Ophelia.....	2103 N. Mesa	King, Samuel R.....	3517 Byron
		Kirchner, Hester Cecil.....	
Jack, Mary Louise.....	Rt. 1, Box 425		Benedict Hall

Kistenmacher, George	8 Anita Circle	Leverett, Charles Whit	4117 Clifton
Kitchens, William Fred, Jr.	3728 Mountain	Levy, Irene	2317 N. Campbell
Kleh, Mary Virginia	3205 Pershing Dr.	Lewis, Joyce L.	210 W. San Antonio
Klink, Pauline	2747 Grant Ave.	Lewis, William	Football Brks.
Klohs, Charmian	3205 Ft. Blvd.	Leyva, Roberto	617 Upson Ave.
Knapp, Kathryn Louise	2100 N. Stanton	Libbey, Donald	Benedict Hall
Knecht, Ethel Mary	Hotel Dieu	Lide, Lilla B.	2405 N. Stanton
Knipps, William K.	2312 Pittsburg	Lide, Lucene	3710 Cambridge
Knoblauch, Edward C.	1019 Moore	Lighton, Daniel	1408 N. El Paso
Kobren, Sam Rudolf	2727 Gold	Lincoln, Joseph Aaron	509 W. Missouri St.
Koger, Carol Cockrell	96S Awbrey Rd.	Lindberg, John	914 N. Lee St.
Koger, Russell Leon	96S Awbrey Rd.	Lindsey, Marvaine Willard	Box 89, T. C. M.
Konen, Alquin	1308 N. Ochoa	Linker, Rosalie Orr	410 W. Yandell
Kopf, Nancy	1435 Fewel	Little, Charles Homer	2920 Richmond
Korycinski, Victor	Hotel Laughlin	Little, John Edward	2010 Montana
Kownslar, Robert Conrad	Benedict Hall	Little, Kathleen	Worrell Hall
Kranzthor, Jacqueline	1216 N. Mesa	Llamas, Hector Manuel	Benedict Hall
Krupp, George Philip	1129 Magoffin	Lochausen, Roberta	3116 Wheeling
Lake, Ellen	Box 400, Rt. 1	Lockwood, Sidney	1717 N. St. Vrain
La Mar, Caleb H.	2862 Grant Ave.	Long, Robert R.	Rt. 1, Box 457
Lance, O. Paul	1409 N. El Paso	Lopez, Alfonso	2314 Magoffin
Landsdowne, Dickie	514 N. Mesa	Lopez, Andres	P.O. Box 206, Juarez, Chih., Mex.
Lange, Arthur	3126 Ft. Blvd.	Lopez, Carlos O.	706 N. Santa Fe
Langford, John A.	3607 Memphis	Lopez, Charles Albert	1201 Galloway
Lankford, Giles S.	Benedict Hall	Lopez, Gilbert	507 Newman
Lapsley, Edna	3502 Sacramento	Lopez, Jesse T.	711 South Campbell
Lara, Ernest A. H.	2912 Magoffin	Lopez, Julian, Jr.	607 E. Missouri St.
Lardizabal, Laura	410 Arizona	Lopez, Martha Eloise	1201 Galloway
Larner, Jeanne	Worrell Hall	Lopez, Robert Carlos	216 N. Val Verde
Lassetter, Stuart H.	4714 Cumberland C.	Lopez, Rodolfo	507 Newman St.
Lattner, Patricia A.	Worrell Hall	Loranca, George	515 E. Nevada
Lawrence, Joseph Charles	3022 Montana	Lorentzen, Wayne	801 Basset Tower
Ledwig, Bernadine	2734 Gold	Loustaunau, Benjamin	3501 White Oaks
Lee, William C.	109½ So. El Paso St.	Love, George E. W.	3671 Bishop
Leftwich, Charles Madison	Museum	Lowry, Bettie (Cherry)	324 W. Missouri St.
Legorreta, Hector	615 E. Rio Grande	Loya, Edmundo	3418 Idalia
Leib, Morton V.	520 Cincinnati St.	Loya, Patricio	1200 S. Stanton
Leighton, Henry Parry	1803 E. Nevada St.	Lucas, William Eugene	1306 Chadbourne
Leitch, Mrs. Helen	1141 N. Cotton	Lucero, Julio Cesar	710 Prol. 16 de Sept., Juarez, Chih., Mex.
Lembo, Frank Victor	3716 Nations Ave.	Lucio, Jesus Manuel	3815 Alamogordo
Lemmons, Mickey Ray	Ysleta, Texas	Lucky, Gladys Mae	Rt. 1, Box 1J
Leonard, Bowen R., Jr.	1505 Elm St.	Luettich, Barbara Ann	Rt. 1, Box 126
Letternich, John	Clint, Texas	Lujan, Rogelio	1225 W. Main
Letternich, Martin	Box 56, Clint, Texas	Luna, Jose Luis	Benedict Hall

Luna, Tony.....	3523 Memphis St.	McKinney, James Wm.....	
Lunderville, Robert	Rt. 2, Box 412	McKinley	3700 McKinley
Lundy, James H.....	805 N. Campbell	McMahon, John A.....	2411 Pittsburgh
Luyster, Jimmy Kenneth.....		McMahon, Nell.....	Worrell Hall
	1207 E. Rio Grande	McMorrow, Anne Burney.....	
Lyle, Francis Austin.....			Ota. 972, Ft. Bliss, Texas
	917 Wyoming, No. 16	McNutt, Dick Emerson.....	Box 1161
Lynch, Shirley Anne.....		McNutt, Joe M.....	Rt. 2, Box 231
	235 Pennsylvania	McRimmon, J. R.....	3106 Louisville
Lyon, Dorothy Louise.....		McRimmon, James W.....	2306 Copia
	4209 Pershing	Maass, Carlos Humberto.....	
Lyon, Le Roy Harvey, Jr.....			305 Montezuma St., Juarez,
	3509 Monroe		Chih., Mex.
Lyon, Lily Jane.....	4209 Pershing St.	MacCallum, Frank.....	
			1815 E. Rio Grande
McAuliffe, Martha Elaine.....		Maddox, Sara Thomas.....	
	2612 Copper		4220 Cambridge
McBee, William H.....	2722 Wyoming	Madrigal, Adrian.....	1522 Mundy
McBride, Charles Jefferson.....		Madsen, Claron H.....	Trailer 18
	3617 Ft. Blvd.	Magee, Barbara Ann.....	3008 Altura
McBride, George Bentley.....	Campus	Magruder, John B.....	713 Upson Ave.
McCamant, Estella.....	3243 Aurora	Malone, Harold W.....	
McCarthy, Catherine.....			Rt. 1, Box 552-C
	1401 E. Nevada	Manker, Charles C. G.....	
McCarthy, John Warren.....			2909 Louisville St.
	Benedict Hall	Manning, John Albert.....	909 Montana
McCarty, Ruby Mae.....	914 Laurel	Manning, John Robert.....	
McCaskill, Terry H.....			2011 Olive St., Apt. 18
	613 N. Oregon	Mansour, William.....	2708 Montana
McCleskey, James Milton, Jr.....		Mapula, Frank.....	1016 N. Brown
	2813 Savannah	Marczeski, John Anthony.....	
McClure, Stella.....	3014 Grant		3919 Hueco St.
McConn, Richard Lewis.....		Mares, Jose G.....	800 S. El Paso St.
	1066 N. Oregon	Mark, Donald.....	Anthony, Texas
McCormick, Robert.....	1028 Magoffin	Marmolejo, David Manuel.....	
McCrackin, Pearl.....	609 Robinson		419 Upson Ave.
McCray, William E.....		Maros, Mary.....	Worrell Hall
	1715 N. Stanton	Marquez, Armando.....	
McCullough, Herbert Lewis.....			1410 E. Yandell Blvd.
	2508 Richmond	Marrujo, Lucy.....	Hotel Dieu
McDonald, George.....	2906 Richmond	Mars, Patricia Ann.....	2923 Aurora
McDonald, Harriett.....	1004 Madeline	Marston, Miriam.....	3430 Hueco St.
McDonald, Malcolm Alexander.....		Martin, Edgar L.....	Trailers, T.C.M.
	1004 Madeline	Martin, Gaye.....	1110 N. Estrella
McGalliard, Patricia Rand.....		Martin, Harry Wm., Jr.....	
	Box 85, T.C.M.		1205 E. Yandell
McGalliard, Robert J.....		Martin, Lillian B.....	Trailer No. 12
	Sunset Crts., West Main	Martin, Rebecca Margaret.....	
McGovern, Mary.....	3205 Douglas		805 N. Campbell
McGrath, John Craige.....	909 Rosewood	Martin, Robert.....	805 N. Campbell
McGurk, Jack B.....	Benedict Hall	Martin, William Brewster.....	
McIntosh, Robert T.....			Benedict Hall
	1910 E. Yandell	Martinez, Alfonso C.....	
McKemy, Charles Tobin.....			10 N. Eucalyptus, Apt. 275
	1301 N. Kansas	Martinez, Ambrose L.....	66 N. Hammett
McKenzie, Willetta Rose.....		Martinez, Arcelia.....	1205 E. River St.
	Worrell Hall		

Martinez, Andres.....	Mercado, Miguel.....1013 N. Florence
Ave. Lerdo 112, Int. 6, Juarez,	Merriman LeGrand.....
Chih., Mex.	.....1107 E. California
Martinez, Antonio.....	Merritt, Ruth Lynn.....1106 E. Yandell
10 N. Eucalyptus, No. 275	Mewhorter, Betty Jane.....Rt. 2, Box 65
Martinez, Frances Ybarra.....	Mewhorter, William J.....Trailer Camp
Hotel Dieu	Meyers, William Albert.....501 Prospect
Martinez, Juan, Jr.....	Michael, Vivian.....3926 Cumberland
119 So. St. Vrain St.	Michel, Gabriel.....131 Linden Ave.
Martinez, Martha.....3229 Pera	Middelton, Sam.....2110 N. Florence
Martinez, Raul.....410 E. Third	Mijares, Ernest.....110 Hudspeth St.
Martinez, Mike H.....1205 E. River St.	Miller, Forrest.....2728 Altura
Martinez, Tony.....401 E. 2nd	Miller, John Gordon.....1722 Raynolds
Martinez, Victor M.....1801 Wyoming	Miller, Mary Bacon.....4123 Clifton
Marty, E. Darlene.....1700 E. Missouri	Miller, Nancy C.....4320 Oxford
Marusich, Sam.....2025 San Jose	Miller, Peggy Ann.....Rt. 2, Box 79
Mason, Henry Homer.....	Miller, Robert Rea.....
3920 Cambridge	.....415 E. California St.
Mata, Juan Manuel.....	Miller, Thelma Conn.....Hotel Dieu
2401 San Diego St.	Millican, James.....3708 Morehead
Mathews, Richard Stanley.....	Mills, Joe J.....71 Glenwood Dr.
Sunrise Acres	Minas, Steve.....505 E. Nevada
Mathews, Robert Wallace.....	Miner, Charles Phillip.....
Sunrise Acres	.....1408 N. Virginia
Mayfield, Roscoe Benny.....	Minton, Herbert.....708 N. Kansas
3518 Tularosa	Mitchell, John R.....917 Wyoming
Mayton, Shirley Jeanne.....	Mitchell, Loraine Guffey.....
1107 Butterfield	.....917 Wyoming
Meadors, Dixie May.....3232 Memphis	Mitchell, Marjorie Eliz.....
Meadows, J. H.....2862 Grant Ave.	Worrell Hall
Meagher, Janice L.....3204 Lebanon St.	Mizener, Harry R.....530 N. Oregon
Meazell, Helen Marie.....1220 Magoffin	Mock, Glenn Everett.....4109 Clifton
Mediavilla, Maria Luisa.....	Moffett, Earl Howard.....Rt. 2, Box 123
Miguel Ahumada 422 Dep. 1,	Molinar, Martin.....1106 Mundy
Juarez, Chih., Mex.	Monedero, Gonzalo, Jr.....
Medrano, Enrique Jose.....615 W. Main	.....639 W. Missouri St.
Medrano, Octavia R.....	Montelongo, Gloria.....1915 E. Yandell
244 Porfirio Diaz St.	Montes, Ezequiel.....3401 Frutas
Mejia, Pedro.....1415 Wyoming	Montes, Bertha.....3401 Frutas
Melancon, Lionel P., Jr.....	Monthaven, Dale F.....1700 N. Oregon
3800 Manchester	Montoya, Luis.....3426 Pera
Melton, Jack O.....3004 Aurora St.	Moore, George B.....Rt. 2, Box 384A
Melton, John C.....Rt. 1, Box 482A	Moore, Gladiolus (Mrs.).....
Melton, Mary.....3004 Aurora St.	.....2916 Sacramento
Melton, Patricia M.....	Moore, Harold, Edw.....
220 W. Yandell Blvd.	.....1309 N. Stanton
Melton, Uhland.....Benedict Hall	Moore, John Paull.....2715 Silver
Melvin, Maxine Marie.....3125 Pershing	Moore, Patricia Ruth.....
Menard, Yvette Clair.....Worrell Hall	.....1321 E. Yandell
Mendiola, Manuel.....	Moore, Robert H.....4300 Pershing
Internacional 213, Juarez,	Moore, William Arthur.....
Chih., Mex.	Box 216, Anthony, N.M.
Mendoza, Atilano.....Rt. 1, Box 136	Moore, William Miles.....1418 Montana
Mendoza, Jose (Joe).....1418 Kentucky	Morales, Frank.....1110 E. San Antonio
Mendoza, Pablo Chapa.....	Moreno, Francisco Xavier.....
Ojinaga 2212, Juarez, Chih., Mex.	.....3316 Alameda
Mengel, Sherod Lawrence.....	Morgan, Jacob R.....3316 Hamilton
1301 Madeline	Morrel, Mrs. Elaine.....3528 Fort Blvd.

Morris, C. L.	Benedict Hall	Navarro, Emilio Artura	
Morris, Jack Dean			Benedict Hall
	Box 94B Awbrey Rd.	Navarro, Victor Manuel	
Morris, Margaret	Worrell Hall		Benedict Hall
Morris, Nixon Fred		Neatherlin, Irma Frances	
	Box 94B, Awbrey Rd.		Anthony, N.M.
Morrow, William A.		Negrette, Raoul	515 N. Florence
	1127 Los Angeles	Neill, John Lawrence, Jr.	
Morton, Harvey Lee	Rt. 37, Box 97A		2212 Montana
Moses, Louise V. B.		Neugebauer, Betty Louise	
	221 W. Nevada St.		615 Baltimore
Moses, Lyndon Denny		Neugebauer, Edward R.	4214 Clifton
	221 W. Nevada St.	Newell, Arthur George	1801 Elm St.
Moss, Everett	912 Octavia	Newell, Wilson L.	
Mowad, Abe James	501 Arizona		Box 379, Ft. Bliss, Texas
Mowad, Alfred A.	509 E. Yandell	Newman, Robert A.	Rt. 1, Box 196
Mowad, Phillip J.	511 Arizona St.	Nichols, Bearl Watts	2915 Mobile
Mowrey, Beulah, Mrs.	3116 Montana	Nichols, Joanne	1524 Carlyle
Moyaert, Aime	1110 N. Luna	Nichols, Rachel Pierce	
Muckelroy, Alfred M.	3507 Memphis		2915 Mobile St.
Muela, Jose J.	1518 Mundy Ave.	Nicoll, Marion T.	3910 Chester
Mueller, Daniel Patrick		Noguera, Ignacio	1714 E. Yandell
	1007 N. Mesa	Nordin, Kenneth E.	
Muhn, James	4001 Trowbridge		3024 White Oaks
Mulcahy, E. Anne	4200 Pershing	Norman, Lavora	1415 E. San Antonio
Mulhern, Donald J.	3715 McKinley	Norman, Mrs. W. H.	
Mulhern, Patsy Ruth	3715 McKinley		505 E. California
Mullane, Jeanne Elise	4501 Bliss	Norman, William Harris	
Mullen, Cherie B.	4800 Hastings		Benedict Hall
Mullen John Harold	1901 Happer St.	Norris, Dorothy F.	1123 N. Oregon
Muller, Benjamin T.	1805 Arizona	Nowlin, Gertrude	
Muller, Samuel Amado			329 W. Missouri, No. 22
	1805 Arizona	Oberleas, Richard G.	Benedict Hall
Mullett, Edwin, Jr.	Benedict Hall	Obregon, Antonio	715 Mundy Ave.
Munoz, Frank	3714 Alameda	O'Bryan, Mrs. R. H.	3511 Murray
Munzinger, Gretchen		Ochoa, Jesus	Smelter Town
	Rt. 42, Box 953A	Odell, John Hampton	
Murillo, Porfirio	3800 Rivera		Box 56E, Glenwood Drive
Murphy, Dorothy	610 N. Estrella	Odell, Raymond	2620 San Diego
Murphy, Harrison S.	2018 Magoffin	Odin, Jack	Benedict Hall
Murphy, James Edward		Oechsner, John Godfrey	3010 Copper
	715 Cincinnati	O'Leary, Albert	417 W. Yandell
Murphy, Margaret Collen		Oliver, Patsy J.	2931 Pershing
	4507 Bliss St.	Olney, Claudean Lucile	
Murray, Alice Jeanette			917 Rim Road
	Rt. 37, Box 82B	Olson, Frank Hugh	1114 No. Ochoa
Mustain, Paul	1305 N. Estrella	Oltman, Virginia B.	230 N. Davis
Myers, James Richard	912 N. Mesa	Oltman, Virginia Jeanne	
			230 N. Davis
Nabhan, James J.	1630 Wyoming	O'Meara, Robert Frank	
Nagle, Dale	234 N. Davis		3205 Savannah
Naismyth, Mary Jean	3319 Nations	Onopa, Joe	3405 Nations
Napoles, Carmen Amanda		Ontiveros, Antonio	715 Myrtle
	415 Hill, Apt. 79	Oppenheim, Charles Henry	
Nations, Lloyd	3701 Chester		221 Porfirio Diaz
Nava, Joe	3700 Rivera St.	Oppenheimer, Edward	
Navarrete, Horacio Hector			1010 Galloway
	Gen. Del., Ysleta, Texas		

Oppenheimer, Jeanne...916 Park Road	Perrenot, Richard F. B.....
Orme, Elizabeth.....	603 W. Yandell
1216 W. Yandell, No. 5	Peterson, John C.....2920 Federal
Ormsbee, Dorothy.....1211 N. Mesa	Peterson, Judith.....2920 Federal
Orona, Fidel.....705 Mundy	Peterson, Kenneth M.....3607 McKinley
Ortega, Esperanza.....2715 Portland	Petone, Vita Marie.....3664 Bisbee
Ortiz, Alfonso Joseph.....	Pharis, Fred A.....4011 N. Stevens
1015 N. Virginia	Phelan, John Alton.....710 Noble
Ortiz, Ramon, Jr.....511 E. Nevada	Phillips, Edith...San Jacinto School
Osborne, Finnie Penn, Jr.....	Phillips, Lillian.....3530 Tularosa
Campbell Hotel	Phillips, Sallie Evelyn.....
Ostrom, Daniel.....503 S. Florence	3530 Tularosa
O'Sullivan, Helen B.....Rt. 2, Box 217	Phillips, William A., Jr.....
Overton, Bill Joe.....3420 Lebanon	234 N. Davis
Overton, Homer.....3226 Sacramento	Phillips, Zelta.....
Owen, Betty Ruth.....Worrell Hall	234 N. Davis, Apt. 5
Owen, David R.....4526 Pershing Dr.	Pickel, Maryan.....3009 N. Florence
Owen, Frank, III.....	Pickens, David Leroy...3009 Wheeling
Box 65, Fabens, Texas	Pierce, James Wilson.....
Owen, Garry.....3206 Sacramento	3416 Louisville
Paden, Frank E., Jr.....4011 Cambridge	Pierson, Francis Linwood.....
Page, Dorothy Smith...Worrell Hall	4414 Alameda
Palafox, Fernando...1400 N. Florence	Pierson, Max.....4414 Alameda
Palafox, Lillian.....1400 N. Florence	Pineda, Paul.....810 N. Piedras
Palmer, Jimmie Whitton.....	Pitts, Stanley W.....3117 Aurora
2725 Federal	Pixley, Della Mae.....
Palmer, Walter K.....311 E. 6th St.	Rt. 2, Box 227, Vista Del Monte
Pangburn, Conchita...3737 Cambridge	Plumbley, Harry Lee.....
Parham, Ralph W.....2816 N. Piedras	Rt. 42, Box 849B
Paris, Carrol L.....Student Co-op	Plumbley, Richard.....3217 Lebanon
Parker, Claire Bradley.....	Poague, Ann Barclay...Worrell Hall
3240 Louisville	Polly, John R., Jr.....917 N. Ochoa
Parker, Fred D.....2414 N. Stanton	Ponsford, Emanuel Edgar.....
Parker, Wayne Leslie...3410 Idalia	805 Blacker
Parra, Raymundo.....	Pool, Glen Lawrence...809 Newman
1106 E. Rio Grande	Porter, L. B.....3700 Cambridge
Parrish, Joe K.....4014 Cumberland	Porter, Leslie Pickett...3007 Savannah
Parsons, Lynn Edward...Rt. 1, Box 281	Porter, Royal Hopkins...Cortez Hotel
Parsons, Robert A.....804 Mesita	Porter, Thomas Dean...3410 Pershing
Patterson, (Pat) Ernest Crawford	Portillo, Stella.....1316 N. Florence
Benedict Hall	Pouncey, Peggy LaVerne.....
Patterson, Francis M.....	Worrell Hall
3515 Louisville	Powell, Diane M.....4500 Montana
Patterson, Margaret...3200 Lebanon	Prade, Frank C., Jr...1207 N. Oregon
Patton, Raymon E...Benedict Hall	Price, Richard M.....3806 Memphis
Payan, Ernesto Molina.....	Prichard, Marie Chambers.....
311 Chihuahua	1009 N. Stanton, Apt. 11
Pearson, Richard...1118 Arizona	Pritchard, Roy L...1014 N. Kansas
Pendell, George William.....	Procter, Eugene O., Jr.....
Yaleta, Texas	4531 Pershing
Penley, Howard L...3806 Trowbridge	Procter, Mrs. Martha Jean.....
Penley, P. A.....806 Winter	4531 Pershing
Pennell, Raymond H...4225 Oxford	Pronger, Norman.....1700 N. Oregon
Perches, Albert Bernard.....	Provencio, Lillian Anthony, Texas
2811 San Diego	Provencio, Marco Aurelio.....
Perez, Santos...1014 S. Chihuahua	Madero 215, Juarez
Perotti, Maddalena...Hotel Dieu	Provencio, Raul A...631 Prospect

Provencio, J. Roberto.....	Richards, Betty Sue.....
Box 107, El Paso, Texas	Canutillo, Texas
Provencio, Vestina Anthony, Texas	Richards, Cliff Roscoe, Jr.....
Pruitt, Blanche Helen Rt. 1, Box 382	Box 54, Canutillo
Puckett, John E..... 2409 Portland	Richards, Earl Leslie.....
Putman, John Mac 1024 N. Oregon	2212 N. Montana
Puzzi, Peggy..... 3656 Douglas	Richards, George..... 2315 Portland
Pyburn, John R..... 4124 Trowbridge	Richards, Lucy Anne..... Clint, Texas
Pyburn, Paul Francis.....	Richeson, Hawley Mack.....
4124 Trowbridge	3722 Tularosa
Pye, Allen Edward..... 1000 Arizona	Richter, Robert A..... 4031 Chester
Pytcher, Jack R..... 4002 Pershing	Ridgeway, Pat..... 1010 E. River
	Rigdon, Dorothy Allen.....
Quesada, Jesus..... 1319 E. Nevada	2527 Savannah
Quintana, Jose..... 1000 E. Missouri	Riggs, Johnnie E.....
Quintana, Juanita..... Hotel Dieu	Box 34, Clint, Texas
Rabb, Edward Layne..... Benedict Hall	Riggs, Leroy..... 1609 Elm
Radcliff, Rex Lee..... Southard, Okla.	Ritchie, Flora..... 2319 Wheeling
Raleigh, Chester..... 1191 N. Cotton	Rivas, Graciela 1123 E. Rio Grande
Rallis, John..... 517 W. Missouri	Rivera, Alice..... 2700 Stevens
Ramirez, Arturo..... 1513 E. First	Rivera, Arnold..... 921 S. Santa Fe
Ramirez, Conrado..... 711 N. Copia	Rivera, Mary Ellen..... 2700 N. Stevens
Ramirez, Josefina 628 Stewart Place	Rivero, Velia..... 413½ Octavia
Ramos, Juan Antonio..... 1715 Mundy	Roberts, Mary Lou Rt. 37, Box 97D
Randal, William E..... 4000 Oxford	Roberts, Stella Lou 4611 Pershing
Randel, Maggie Coffee.....	Robertson, Howard B. 3909 Pershing
514 N. Mesa, No. 19	Robinson, Alfred..... 812 Magoffin
Rapier, Betty Rose..... 3668 Douglas	Robinson, T. Finley 3201 Louisville
Rapp, John Richard.....	Robinson, James Keen 1602 Arizona
2854½ Pershing	Robinson, John V..... 3419 Altura
Rascon, Vincent P.....	Robinson, Marjorie..... 1602 Arizona
428 S. Virginia, No. 1	Robinson, Patricia A.....
Rathbun, Donald, Jr. 1015 Park Rd.	52 Glenwood Dr.
Rechy, Yvan..... 1115 Wyoming	Rochin, Hector A. 1125 N. Cotton
Rector, Joseph M..... 1701 Radford	Rochin, Mario A..... Barracks
Redman, Frank P. III..... 1505 Elm	Rodarte, Alejandro.....
Redmond, Richard S., Jr.....	212 Olive, No. 147
319 E. Nevada	Rodarte, Antonio..... 2610 Idalia
Reed, Jack Jessen..... 2818 Nashville	Rodarte, Josephine..... 3400 Montana
Reed, Joyce L..... 3325 Pershing	Rodrigues, Amancio..... Barracks
Reeder, Bettie Sue..... Worrell Hall	Rodriguez, Carlos Oscar.....
Regan, Mary Elizabeth 2112 N. Mesa	3410 Manzana
Reinhardt, Dorothy.....	Rodriguez, Eleuterio Cruz.....
48A Glenwood Dr.	4410 Clifton
Renovard, Richard..... 2215 San Jose	Rodriguez, Guadalupe..... 3304 Pera
Renteria, Manuel..... 2044 Bassett	Rodriguez, Ismael 3622 Alamogordo
Resler, Wayne..... 1101 Galloway	Rodriguez, Jesus..... 1515 E. First
Rey, Joseph J..... 3026 Alamogordo	Rodriguez, Santiago Juan 905 Hill
Reyes, Israel..... 4732 Alberta	Rogers, Elizabeth Howe.....
Reynolds, Frances Rt. 42, Box 93	831 Galloway
Reynolds, Susan Jean.....	Rogers, Marian..... 831 Galloway
Rt. 1, Box 169	Romay, Ricardo Luis.....
Reznikov, Neal Lee 1123 Rim Rd.	Ave. 16 de Sept., Juarez
Rhey, Elizabeth Marie..... 728 Kern	Romer, John A. P. 1210 N. Oregon
Rhoads, W. Jake..... Barracks	Romero, Isela Catalina 4219 Bliss
Rhodes, Geraldine..... 1631 Magoffin	Romo, Eduardo..... 3131 Alameda
Rhodes, Tom Charles 1631 Magoffin	Romo, Lillian D. 1022 E. Nevada
	Rosales, Ruben..... 922 E. 7th

Rosas, Federico.....	3120 Pera	Sanderson, Veragene.....	3009 Federal
Rosas, Mauro.....	4219 White Oaks	Sandoval, Rodolfo.....	1506 N. Mesa
Rosch, Lee J.....	2928 Louisville	Santoscoy, Ernest.....	1117 E. Yandell
Rose, Donald Herbert.....	3503 Pershing	Santoscoy, Louis M.....	1117 E. Yandell
Rosen, Lucy.....	1141 Galloway	Santoscoy, Manuel L.....	1117 E. Yandell
Rosenberg, Pattie Lou.....	2712 Montana	Sargent, James Aaron.....	
Rosenberg, Ruth Leona.....	800 Prospect		1127 Los Angeles
Rosenthal, Helen.....	2715 Pershing	Saucier, George.....	Rt. 37, Box 109
Rossman, Cofra.....	812 Magoffin	Sauer, Ernest Wm., Jr.....	
Roth, Beatrice Sally.....	2418 N. Stanton		3615 McKinley Ave.
Roth, Dover.....	1125 Terrace	Schaeffer, Ruben.....	715 Williams
Roth, Milton.....	2418 N. Stanton	Schiemenz, Albert M.....	Benedict Hall
Rothman, Ralph Edwin.....		Schillinger, William Chas.....	
	3924 Cumberland		1116 N. Copia
Rowan, Betty A.....	905 Octavia, Apt. 21	Schlobohm, Rose Marie Agnes.....	
Rowe, Elizabeth Ann.....	3423 Louisville		Hotel Dieu
Rowe, Mary John.....	3423 Louisville	Schlottmann, Jerome D.....	
Roye, Freda A.....	2214 N. Campbell		Benedict Hall
Ruebush, Joseph T.....		Schmitt, Margaret Claire.....	
	503 $\frac{1}{4}$ Prospect Ave.		Rim Crest
Rueda, Enrique S.....		Schnake, John L.....	
	Box 194, Clint, Texas		Hotel Paso Del Norte
Ruelas, Nefali M.....	611 N. Ochoa	Schneider, Donald Manning.....	
Ruiz, Crispin A.....	Benedict Hall		Museum-College
Rumbelow, Arthur R.....	1210 N. Mesa	Schneider, Louise Evans.....	
Russ, Jane.....	Rt. 92, Box 335		Box 35, T.C.M.
Russell, Belle.....	801 N. Kansas	Schulte, Charles R.....	Rt. 42, Box 177
Russell, Rita Faye.....	4018 Morehead	Schwartz, Samuel.....	
Ruth, Henry Earl.....	3725 Cumberland		235 Porfirio Diaz St.
Rutter, Dorothy T.....	901 Baltimore	Scoggins, Harold E.....	Rt. 2, Box 424B
Ryan, Helen Louise.....	Worrell Hall	Scott, James M.....	3010 Memphis St.
Ryan, John Curtis.....	Campus	Scott, John David.....	1521 Hardaway
		Scott, Lawrence S.....	3210 Lebanon
Sackett, Hazel A.....	4000 Hastings	Scott, Louis Allen.....	1521 Hardaway
Sadler, Gloria.....	Worrell Hall	Scrimshire, Everett.....	
Sadowsky, Harriet E.....	814 Wyoming		Box 84, Ysleta, Texas
Sadowsky, Juluis, Jr.....	814 Wyoming	Segura, Pablo.....	3904 Tularosa
Sage, Warren A.....	3424 Fort Blvd.	Selleck, Dick.....	1519 Golden Hill
Salas, Higinio Barron.....	309 8th St.	Selly, Burton.....	324 W. Missouri St.
Salazar, Ruben.....	1117 N. Ochoa	Sepulveda, Carlos.....	1115 E. Yandell
Salem, Albert.....	3512 Tularosa	Sepulveda, Gilberto.....	206 Buena Vista
Salem, A. Fred.....	3808 Cambridge	Serna, Jose Ernesto.....	
Samaniego, Henry.....	1812 Yandell		206 N. Valverde St.
Samaniego, Ramon.....	215 N. Valverde	Servin, Enrique Llovente.....	
Sammer, Mary (Mrs.).....	3311 Idalia		Benedict Hall
Sampson, Bill Russel.....	3027 Grant	Sewell, Raymond Norman.....	
Samuel, David.....	100 N. Florence		Clint, Texas
Sanchez, Angel E.....	2607 Louisville	Sewell, William Joe.....	Clint, Texas
Sanchez, Frank R.....	2124 Magoffin	Sexton, Robert E.....	3305 Hueco
Sanchez, Jesus.....	Benedict Hall	Shacklett, Edward G.....	701 Upson
Sanchez, Luis Trejillo.....		Shaffer, William A.....	3128 Federal
	500 S. St. Vrain	Shamaley, Anne F.....	
Sanchez, Pete.....	1217 W. Main		1101 E. California
Sanchez, Reginald, Robert.....		Shannon, Narvel R.....	Barracks
	2607 Louisville	Shannon, Shirley.....	4320 Cambridge
Sanders, Aaron Perry.....	6701 Alameda	Shaw, Melvin.....	530 N. Oregon
Sanders, Marjorie Anne.....		Shelton, Kenneth.....	Rt. 1, Box 393
	1415 Hawthorne	Shelton, Maravene G.....	4208 Hueco

Sherwood, Herbert N., Jr. _____ _____ Rt. 42, Box 148	Soto, Alberto _____ 1112 N. Ange
Shiner, Vernon Jack, Jr. _____ _____ 2700 Louisville	Soto, Raquel _____ Rt. 1, Box L, Ysleta
Shioji, Frank _____ Box 12, Ysleta	Spencer, George Rutland _____ _____ 1100 Madeline
Shockman, T. C. _____ Barracks	Spikes, Amelda _____ Worrell Hall
Shoppach, Charles E. _____ 3116 Aurora	Spilsbury, Avier _____ 2320 Wheeling
Showery, Raymond Edward _____ _____ 1207 E. Rio Grande	Springer, Margie Marian _____ _____ 709 N. St. Vrain
Shryock, John Elbert _____ _____ 2914 Sacramento	Springer, Mary Estella _____ _____ 709 N. St. Vrain
Shubert, Gene _____ Benedict Hall	Stablein, Lawrence _____ 1011 E. Yandell
Silva, Hector D. _____ 3429 La Luz	Stacy, Joe Billy _____ 1717 N. Stanton
Silva, Henry Louis _____ 4607 Trowbridge	Stafford, Grace _____ 3607 Sacramento
Silva, Roy J. _____ 3531 Rivera, No. 11	Stallings, Joe B. _____ 221 Second
Silver, Jeannetta _____ 2000 N. Virginia	Stamper, Verne _____ 111 Buena Vista
Sindorf, Garrett Donnelly _____ _____ Benedict Hall	Stanton, Elbert _____ 2711 Federal
Sindorf, John Garden _____ Benedict Hall	Stark, Lydia _____ 2003 Happer
Siquerios, Rafael _____ 3409 Madera	Staub, Lawrence W. _____ T.C.M.
Skees, William A. _____ _____ 1601 E. Rio Grande	Stearns, Henry F. _____ 1811 Arizona
Skipworth, Barbara Allen _____ _____ 1014 Upson	Steele, Jack _____ 4500 Bliss
Skousen, Aytch Greer _____ 3604 Jackson	Stembridge, Edward E. _____ 2227 Copper
Skov, Tommy _____ Box 524, Fabens	Stephens, Joaquin G. _____ _____ 1835 Old Ft. Bliss
Slack, Betty Jane _____ 1428 Hawthorne	Stephens, Kenneth Lee _____ Barracks
Slauter, John David _____ 3721 Hueco	Sterling, Dorothy B. _____ 1604 Radford
Slutes, Gerry _____ Rt. 2, Box 221	Sterling, Herman _____ Rt. 42, Box 615
Small, Theodore Allan _____ _____ 925 McKelligan	Stevens, Adele de Werff _____ _____ 1413 Montana
Smidth, Marilyn _____ 3612 La Luz	Stevens, Everett, Jr. _____ Benedict Hall
Smith, Mrs. Audrey _____ 1116 N. Oregon	Stevens, Lloyd Verlyn _____ _____ 2414 N. Kansas
Smith, Clell R. _____ 610 River	Stevens, Marjorie _____ 2414 N. Kansas
Smith, David Allen _____ 2313 Montana	Stevenson, James Allen _____ _____ 3906 Flory Ave.
Smith, Edward High _____ 3108 Altura	Stewart, Anona Mary _____ _____ 2930 Grant Ave.
Smith, Edwin _____ Benedict Hall	Stewart, Charles M. _____ 709 N. Octavia
Smith, Ira Thomas _____	Stewart, James Jack _____ Y.M.C.A.
Smith, Jack _____ Box 411, Ysleta	Stinnett, David _____ Box 331, Post Office
Smith, Jack W. _____ 710 N. Santa Fe	Stinson, John Albert _____ Rt. 1, Box 116
Smith, Norbert L. _____ 2030 N. Mesa	Stockwell, Sarah Jane _____ _____ 3701 Cambridge
Smith, Robert Charles _____ _____ 1811 Louisiana	Stokes, Samuel Dewey, Jr. _____ _____ 819 Grape, Hot Springs, N.M.
Smith, Robert H. _____ 1119 El Paso	Stone, James B. _____ 1216 Baltimore St.
Smith, Robert H. _____ 1116 N. Oregon	Stovall, Don _____ Box 163, Ysleta, Texas
Smith, Robert Langley _____ _____ 3831 Trowbridge	Stover, William Jarden, Jr. _____ _____ Worrell Hall
Snelson, Ray Marshall _____ _____ 1211 Prospect	Stowe, Manuel C. _____ 4005 Tyler St.
Snider, Irving Lee _____ 1126 E. River	Stromberg, Jane Laney _____ _____ 4217 Trowbridge
Snow, Willie Anita _____ 3801 Pershing	Stuart, David _____ 1425 Hawthorne Pl.
Snowden, Edith Julia _____ _____ 1309 E. California	Stuart, Frank Erwin _____ _____ 1425 Hawthorne Pl.
Snowden, Edna Ella _____ _____ 1309 E. California	Sullivan, Lynn W. _____ 3201 Lebanon
Sookiasian, Abraham _____ 502 Lerdo	Sutherland, Gordon _____ 1018 Mills Bldg.
Sosa, Hector _____ _____ Ocampo 307 N., Juarez	Sutton, James L. _____ 4105 Montana
	Swan, Marjorie C. _____ 3827 Nations Ave.

Swan, William C.	3827 Nations Ave.	Trew, Frank	2922 Louisville
Sweatt, William	Rt. 42, Box 965	Troncoso, Rodolfo	2924 Finley
Sweeney, Dorothy Jean	2800 Memphis	Trost, Marion	1107 Baltimore
Swegler, Flora L.	3312 Montana	Trowell, David Allen	3901 Porter
Syner, Alan	2820 Aurora	Trujillo, Martha	1217 S. El Paso
Tappan, Bob	1546 Upson	Trustman, Mary Patricia	1620 N. Mesa
Tarin, Enrique	4734 Alberta	Turner, Herbert Albert	1217 Prospect
Taylor, Glenn D.	Ysleta, Texas	Turner, Jay	2504 Wyoming
Taylor, Jack I.	93A Awbrey Rd.	Turner, Joe B.	1517 Alta
Taylor, Mary Eliz.	3008 Fort Blvd.	Turner, Marjorie	2504 Wyoming
Taylor, Norman L.	3666 Bishop St.	Tuttle, James Bradford	3113 Memphis
Teat, Max Shannon	903 W. Missouri St.	Tyson, Johnny Mack	810 N. Kansas
Tejeda, Antonio S.	201 E. 7th St.	Ulum, Carl Glenn	1000 E. San Antonio
Templeton, Franklin Wayne	912 W. Yandell Blvd.	Unsell, David Baker	2713 San Marcial
Tenney, Dorothy	910 N. Oregon	Uranga, W. Esteban	Benedict Hall
Thomas, Louise	212 Montana St.	Uzeta, Martha Beatriz	609 E. Missouri
Thomas, Lova Mae	3308 Memphis	Valdez, Henry Humbert	402 N. Copia
Thomas, Margaret	1287 Elm	Valdivia, Rodolfo	1006 E. Missouri St.
Thompson, Jack T.	3131 Wheeling	Valencia, Joe I.	507 South Estrella
Thompson, Marvin F. W.	206 N. Valverde	Valentino, Anna B.	Rt. 37, Box 115A
Thomson, Gordon	3731 Memphis	Valenzuela, Josefina Natalia	1314 Arizona St.
Thomson, Junius Aubry	3613 Mountain	Valenzuela, Rodolfo	71 N. Eucalyptus
Thornbery, Jesse Lee	Benedict Hall	Van Haselen, William, Jr.	Box 662, Ysleta, Texas
Threadgill, Betty Lou	Rt. 1, Box 251	Van Hoff, William Joseph	1000 Kelly Way
Threadgill, Edythe Va.	Rt. 1, Box 251	Van Horne, Harriet	Worrell Hall
Thurber, Scott	3011 Savannah	Van Trease, Maudie Ann	911 E. River St.
Tiernan, Richard Peter	3810 Hueco St.	Van Trease, Ruth	911 E. River St.
Tighe, Emmaline (Bebe)	Rt. 2, Box 257	Van Zwoil, Richard	2828 N. Campbell
Tillman, Shirley Ann	2111 N. Mesa	Vargas, Elvira	825 Mundy Ave.
Tinguely, Roy	4331 Oxford	Vargas, Jorge	825 Mundy Ave.
Tipton, Richard Gordon	Benedict Hall	Varela, Aurelia	3915 Pera St.
Tipton, Sybil I.	506 W. Yandell Blvd.	Varela, Jose Guillermo, Jr.	3915 Pera St.
Tipton, William Dee	Trailer Camp	Vasquez, Alejandro	4101 Ross
Toole, Lois Jane	2325 N. Kansas	Vasquez, Alicia	3004 Montana
Toole, Mary Evelyn	2325 N. Kansas	Vasquez, Arnulfo	3113 White Oaks
Torres, Carlyle	2207 N. Campbell	Vasquez, Estela	3215 Rivera
Torres, Joe E.	501 E. Nevada	Vasquez, Estella	3004 Montana
Torres, Jaime	915 S. St. Vrain	Vasquez, Jose C.	4101 Rosa St.
Totter, Matthew	3212 Pershing Dr.	Vaughan, Lewis Johnston	1919 Happer
Tovar, Guillermo	802 S. Park St.	Vavra, Eunice Joy	3225 Fort Blvd.
Towles, Edna Lee	Ysleta, Texas	Veater, Jimmie	3716 Taylor
Tracht, Phyllis Frances	3412 Fort Blvd.		
Trafford, Mildred	1106 E. Yandell Blvd.		
Treadaway, James David	3131 Manzana		

Vela, Salvador M., Jr.	802 N. Copia	Wendt, Fred Edward	3902 Monroe
Velasquez, Alfonso F.	1520 E. San Antonio	Werner, Finis Appleton	2308 Silver St.
Vera, Brigida Maria	2109 E. San Antonio, Apt. 223	Wheeler, Mrs. Olive	3917 Pershing
Vicksell, Jean Dolores	Worrell Hall	Whelen, Henry James	1511 Elm St.
Vigil, Victor H.	708 W. Missouri St.	White, Alice Mildred	329 W. Missouri St.
Vikse, Sigurd B.	526 W. Missouri St.	White, Harold M.	2831 Lebanon
Villa, Magdalena	Worrell Hall	White, J. R. (Jay)	3518 Jackson
Viñanueva, Enrique, Jr.	Rt. 42, Box 91	White, Patty	13101 Cincinnati
Villareal, Oscar	507 Wyoming	White, Peggy	1611 Indiana
Vollmer, Mrs. Madge	1017 Montana	White, Wilma	3431 La Luz
Von Trees, Margaret Susan	Hotel Dieu	Whitney, Evelyn	3711 Bliss
Wadley, Jimmy	1011 N. Campbell	Wickliffe, Rose	1101 Cedar
Wagner, Durrett	729 Kern	Wilcox, Nancy Lee	602 Cincinnati
Wainwright, Robert E.	St. A, Box 3031	Wiggins, Bobby Lane	Worrell Hall
Walker, Barbara	1018 Nevada St.	Wilkerson, Eddie Carnegie	708 N. Oregon
Walker, Leslie	415 Prospect, Apt. 14	Williams, Bert	1119 Magoffin
Walker, Roberta Ruth	Westerner Hotel	Williams, Charles Edward	1403 N. Florence
Wall, Alice Nan	316 E. Rio Grande	Williams, Mrs. (Charles) Joy	1403 N. Florence St.
Wallace, Wilma Nell	525 Wellesley	Williams, Clarence	3525 McKinley
Walsh, Louise	800 Prospect	Williams, John W.	705 Arizona
Walshe, Jane W.	1014 Madeline	Williams, Paul Clay	2942 Copper
Walters, Dorothy A.	4220 Pershing Dr.	Williams, Robert E.	417 E. Yandell
Walters, Sidney Walter	4220 Pershing Dr.	Williams, Robert M.	500 W. Yandell
Ward, Coletta L.	1019 N. Ange	Williams, Thomas Dec.	2111 Erie
Ward, Oscar T.	1404 N. St. Vrain	Williams, Thomas John	4003 Cumberland
Ward, Texas S.	1404 N. St. Vrain	Williford, James Thomas	327 W. Missouri St.
Wardy, George David	3431 Alamogordo	Wilson, George	1020 E. 2nd St.
Wardy, Georgette M.	3431 Alamogordo	Wilson, Mildred Mrs.	Rt. 1, Box 419
Warren, Billy Ruth	4323 Pershing	Wilson, Thomas Fredrick	Rt. 1, Box 468
Warwick, James Edward	Rt. 1, Box 585	Wiseheart, Charles Thomas	Tri-State Hotel
Wasserzug, Eugenia	1004 Park Road	Wofford, Barbara	3023 Altura
Waters, Sarah J.	2221 N. Stanton	Woldert, Marian Wilma	4308 Hastings
Watt, Arthur Dwight	701 N. El Paso, Apt. 3	Wolf, Clinton	1319 Montana
Watt, Vance Virginia	701 N. El Paso, Apt. 3	Wolf, Joseph W.	2003 Grandview
Weaver, Vinnie	513 Upson Ave.	Womack, Carroll	4315 Cambridge
Webb, Karma Dee	1403 Louisiana	Womeldorf, Eugene	2608 N. Mesa
Webb, Max James	1009 N. Stanton	Woo, John Joe	1215 N. Florence
Webb, Thomas P.	1127 Wyoming	Wood, Louise	328 W. Missouri
Wechter, Aaron	816 Mesita	Woodard, Glenn E.	Rt. 1, Box 100
Wechter, Max	816 Mesita	Woodward, Lois Jean	Hotel Dieu
Weidner, Frank Lewis	1809 Elm	Woodul, Harold B.	417 W. Yandell
Wells, Louise	3001 Aurora	Woodul, William Daniel, Jr.	511 Cincinnati
Wells, Mary Ellen	619 Prospect	Wooldridge, William David	3601 Altura
Welsch, Lawrence	61A Glenwood Dr.	Woodrow, John	3925 Nations
Welsh, Johnny	3931 Cumberland	Wooten, Bessie Josephine	Hotel Dieu

Register of Students

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Wright, Catharine R.	3206 Douglas	Young, Eddie Mae	4307 Montana
Wright, Edwina Sue	3206 Douglas	Young, Paul R.	2315 Portland
Wyer, Karl	2814 Aurora	Yturralde, Frank	4001 Rivera
Yaeger, Murray	1717 N. Stanton	Yutze, Ada Mae	Hotel Dieu
Yahr, Robert	800 Cincinnati	Zimmerman, Harold	3127 Louisville
Yapor, Isaac	2208 N. Copia	Zimmerman, James B.	1500 Montana
Yates, Paul C.	Rt. 42, Box 961	Zink, Larry E.	2730 Lebanon
Ybanez, Elias		Zozaya, Oscar R.	239 Porfirio Diaz
805 Zaragosa, Juarez, Chih., Mex.		Zubiarte, Ricardo A.	917½ Park St.
Yee, Wing	327 W. Missouri	Zuendt, Bob	1319 Rim Road

DEGREES CONFERRED IN MAY, 1946

Bachelor of Science in Mining Engineering

Ruperto G. Aguilar
Luis Antonio Jauregui
Emil James Mueller, Jr.

Jerry Karl Mueller
Jesus Arturo Porras

Bachelor of Arts

Josefina Acevedo
Frances Sylvia Ackerman
Barbara Saffold Adams
Ellen Mae Allen
Mary Margaret Arnold
Ann Louise Blaugrund
Nancy Scott Bomar
Margaret Mary Boylan
Gabriel Cordova, Jr.
Alice Sowell Cummings
Consuelo Flores
Flora Alice Funk
Mary Louise Gomillion
William Gonzales
Mary Alice Graves
Emily Mariam Hess
B. David Hyde
Rita Felicie Kircher
Leonard Kornfeld

Virginia Lane
Frances Adele Lowry
Martha M. McCall
Hugh J. McGovern, Jr.
Mary Louise Maese
Richard Warren Mithoff
Cecilia Gil de Partearroyo
Betty Garner Penley
Martha Patterson Peterson
Betty Grace Piper
Doris Sue Potter
William John Reynolds
Laura Louise Richmond
Catherine Rose Schafer
Betty Lou Schwartz
Glendyne Ward Stewart
Robert R. (Bob) Stuart
Louise Williams
Marilyn Yates Zeitz

Bachelor of Science in the Sciences

Lady Margaret Cary
Frank Lanier Dunn
Jesse D. Gomillion, Jr.
Lorraine Guffey

Walter Kempler
Paul Poe Mustain
Laszlo Schwartz
Mayo Stark

Master of Arts

Mardee de Wetter
Mary Pearl Jensen

Mary B. McCarty

DEGREES CONFERRED IN AUGUST, 1946

Bachelor of Science in Mining Engineering

Lorenzo Quintana

Bachelor of Arts

Joseph A. Bilodeau
Margaret Borders
Mrs. Martha Espey Bullington
Martha E. Burton
Shirley Cairns
Edward H. Casner
Michael Chaparro
Thelma Lee Davis
Rene Diaz
Argelia Palafox Fernandez
Maude Ward Folsom
Genevieve G. Galloway
Dorothy Hermann
Leola C. Hunt
Bernard Suhl Lauterbach
Henry Samuel Lide, Jr.

Charles H. Lockhart
Josephine MacIntyre
Elizabeth O. Morrill
Marzee Elizabeth Mueller
Mrs. Joy McKechnie Odom
Jane Cronenberg Price
Robert Lynn Reid
Bonnie Dale Rush
Amelia B. Smith
Maxine Rogers Smith
Wallace E. Snelson
Robert Lewis Tappan
Lucy Flora Valentino
David Lee Waggoner, Jr.
Agnes Wood

Bachelor of Science

William A. Johnstone, Jr.

Mario Palafox

Master of Arts

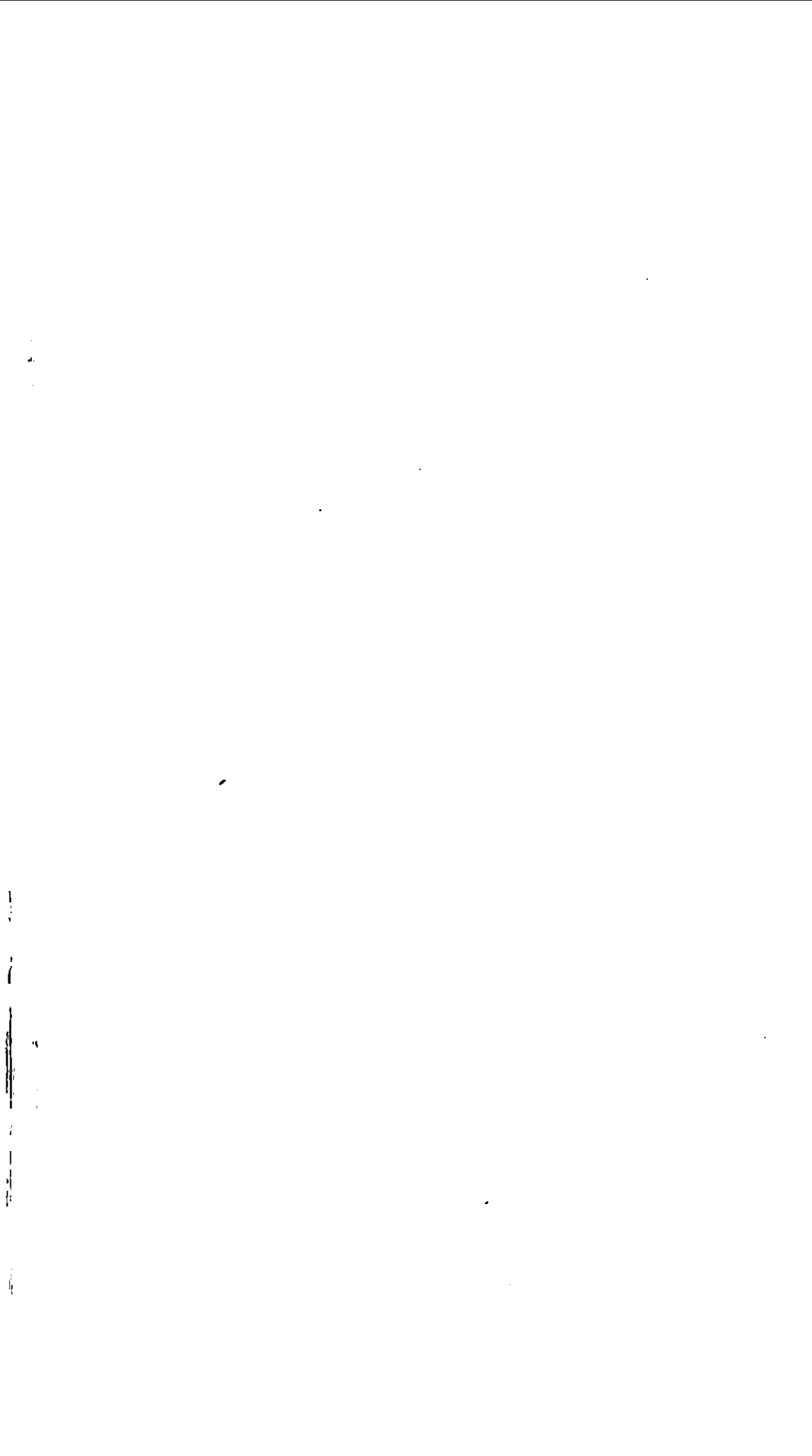
Jennie Osborne Bailey

Lovella Spikes Fisher

STATISTICAL SUMMARIES

Students

	Long Session, 1945-1946		
	Men	Women	Total
Engineering			
Postgraduates	3	0	3
Seniors	13	0	13
Juniors	20	0	20
Sophomores	51	0	51
Freshmen	185	2	187
Non-credits	6	0	6
Unclassified	1	0	1
Total	279	2	281
Arts and Sciences			
Postgraduates	22	43	65
Seniors	28	42	70
Juniors	31	70	101
Sophomores	73	110	183
Freshmen	239	277	516
Non-credits	22	8	30
Unclassified	18	65	83
Total	433	615	1,048
Total Individual Students	712	617	1,329
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	Summer Session, 1946		
	Men	Women	Total
Students registered in the first term	587	247	834
Students registered in the second term	530	192	722
Total	1,117	439	1,556
Total Individual Students in the Summer Session	678	313	991



T·C·M